

## JRC GMO-Amplicons BLAST (PROMOTERS)

Query= FMV35S/TSF1\_Expression\_vector\_pMON99036\_-\_JN400388.1 . 2

Query= FMV35S\_Figwort\_mosaic\_virus\_-\_NC\_003554.1 ..... 2

Query= P35S\_1SEQ\_REF\_NOVA\_Cauliflower\_mosaic\_virus\_-\_NC\_001497.1

..... 3

Query= pActin1\_\_(pRice\_Actin)\_Oryza\_sativa\_-\_S44221.1 ..... 33

Query= P-E35s\_Cloning\_vector\_pRGK336\_-\_AY739898.1 ..... 33

Query= pmas\_Arabidopsis\_thaliana\_-\_X68599.1 ..... 79

Query= pMTL\_(p-MT)\_Zea\_mays\_-\_S57628.1 ..... 79

Query= pNOS\_Agrobacterium\_tumefaciens\_-\_V00087.1 ..... 79

Query= pSsuAra\_Arabidopsis\_thaliana\_-\_X13611.1 ..... 99

Query= pTA29\_Nicotiana\_tabacum\_-\_X52283.1 ..... 100

Query= pUbiZM1\_Zea\_mays\_-\_S94464.1 ..... 100

Query= TSF1\_Arabidopsis\_thaliana\_-\_NC\_003070.9 ..... 100

**Query= FMV35S/TSF1\_Expression\_vector\_pMON99036\_-\_JN400388.1**

Length=1708

Sequences producing significant alignments:

lcl|Amplicon\_73 non-redundant amplicon of 390 matches  
 lcl|Amplicon\_74 non-redundant amplicon of 422 matches  
 lcl|Amplicon\_83 non-redundant amplicon of 103 matches

Score (Bits)	E Value
<u>354</u>	3e-99
<u>141</u>	3e-35
<u>138</u>	4e-34

>lcl|Amplicon\_73 non-redundant amplicon of 390 matches

Length=196

Score = 354 bits (392), Expect = 3e-99  
 Identities = 196/196 (100%), Gaps = 0/196 (0%)

Strand=Plus/Plus

Query 14	AAGCCTCAACAAGGTACAGGGTACAGAGTCTCCAAACCATTAGCCAAAAGCTACAGGAGAT	73
Sbjct 1	AAGCCTCAACAAGGTACAGGGTACAGAGTCTCCAAACCATTAGCCAAAAGCTACAGGAGAT	60
Query 74	CAATGAAGAACCTTCATCAAAGTAAACTACTGTTCCAGCACATGCATCATGGTCAGTAA	133
Sbjct 61	CAATGAAGAACCTTCATCAAAGTAAACTACTGTTCCAGCACATGCATCATGGTCAGTAA	120
Query 134	GTTTCAGAAAAAGACATCCACCGAAGACTTAAAGTTAGGGCATCTTGAAAGTAATCT	193
Sbjct 121	GTTTCAGAAAAAGACATCCACCGAAGACTTAAAGTTAGGGCATCTTGAAAGTAATCT	180
Query 194	TGTCAACATCGAGCAG 209	
Sbjct 181	TGTCAACATCGAGCAG 196	

>lcl|Amplicon\_74 non-redundant amplicon of 422 matches

Length=78

Score = 141 bits (156), Expect = 3e-35  
 Identities = 78/78 (100%), Gaps = 0/78 (0%)

Strand=Plus/Plus

Query 327	CAAAATAACGTGGAAAAGAGCTGTCCCTGACAGCCCACACTCACTAATGCGTATGACGAACGC	386
Sbjct 1	CAAAATAACGTGGAAAAGAGCTGTCCCTGACAGCCCACACTCACTAATGCGTATGACGAACGC	60
Query 387	AGTGACGACCACAAAAGA 404	
Sbjct 61	AGTGACGACCACAAAAGA 78	

>lcl|Amplicon\_83 non-redundant amplicon of 103 matches Length=78

Score = 138 bits (152), Expect = 4e-34  
 Identities = 76/76 (100%), Gaps = 0/76 (0%)

Strand=Plus/Plus

Query 327	CAAAATAACGTGGAAAAGAGCTGTCCCTGACAGCCCACACTCACTAATGCGTATGACGAACGC	386
Sbjct 1	CAAAATAACGTGGAAAAGAGCTGTCCCTGACAGCCCACACTCACTAATGCGTATGACGAACGC	60
Query 327	CAAAATAACGTGGAAAAGAGCTGTCCCTGACAGCCCACACTCACTAATGCGTATGACGAACGC	386
Sbjct 1	CAAAATAACGTGGAAAAGAGCTGTCCCTGACAGCCCACACTCACTAATGCGTATGACGAACGC	60
Query 387	AGTGACGACCACAAAA 402	
Sbjct 61	AGTGACGACCACAAAA 76	

Lambda	K	H
0.634	0.408	0.912

Gapped

Lambda	K	H
0.625	0.410	0.780

Effective search space used: 161887894

**Query= FMV35S\_Figwort\_mosaic\_virus\_-\_NC\_003554.1**

Length=7743

Sequences producing significant alignments:

lcl|Amplicon\_73 non-redundant amplicon of 390 matches  
 lcl|Amplicon\_74 non-redundant amplicon of 422 matches  
 lcl|Amplicon\_83 non-redundant amplicon of 103 matches

Score (Bits)	E Value
<u>354</u>	1e-98
<u>141</u>	1e-34
<u>138</u>	2e-33

>lcl|Amplicon\_73 non-redundant amplicon of 390 matches

Length=196

Score = 354 bits (392), Expect = 1e-98  
 Identities = 196/196 (100%), Gaps = 0/196 (0%)

Strand=Plus/Plus

Query 6497	AAGCCTCAACAAGGTACAGGGTACAGAGTCTCCAAACCATTAGCCAAAAGCTACAGGAGAT	6556

Sbjct 1 AAGCCTCAACAAGGTCAAGGGTACAGAGTCTCCAAACCATTAGCCAAAAGCTACAGGAGAT 60  
Query 6557 CAATGAAGAATCTTCATCAAAGTAAACTACTGTTCCAGCACATGCATCATGGTCAGTAA 6616  
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 CAATGAAGAATCTTCATCAAAGTAAACTACTGTTCCAGCACATGCATCATGGTCAGTAA 120  
Query 6617 GTTCAGAAAAAGACATCCACCGAAGACTTAAAGTTAGTGGGCATCTTGAAAGTAATCT 6676  
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 121 GTTCAGAAAAAGACATCCACCGAAGACTTAAAGTTAGTGGGCATCTTGAAAGTAATCT 180  
Query 6677 TGTCAACATCGAGCAG 6692  
||||||||||||||||  
Sbjct 181 TGTCAACATCGAGCAG 196  
>lcl|Amplicon\_74 non-redundant amplicon of 422 matches Length=78  
Score = 141 bits (156), Expect = 1e-34  
Identities = 78/78 (100%), Gaps = 0/78 (0%)  
Strand=Plus/Plus  
Query 6810 CAAAATAACGTGGAAAAGAGCTGTCCTGACAGCCCACACTCACTAATGCGTATGACGAACGC 6869  
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 CAAAATAACGTGGAAAAGAGCTGTCCTGACAGCCCACACTCACTAATGCGTATGACGAACGC 60  
Query 6870 AGTGACGACCACAAAAGA 6887  
||||||||||||||||  
Sbjct 61 AGTGACGACCACAAAAGA 78  
Query 6870 AGTGACGACCACAAAAGA 6887  
||||||||||||||||  
Sbjct 61 AGTGACGACCACAAAAGA 78  
>lcl|Amplicon\_83 non-redundant amplicon of 103 matches Length=78  
Score = 138 bits (152), Expect = 2e-33  
Identities = 76/76 (100%), Gaps = 0/76 (0%)  
Strand=Plus/Plus  
Query 6810 CAAAATAACGTGGAAAAGAGCTGTCCTGACAGCCCACACTCACTAATGCGTATGACGAACGC 6869  
||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 CAAAATAACGTGGAAAAGAGCTGTCCTGACAGCCCACACTCACTAATGCGTATGACGAACGC 60  
Query 6870 AGTGACGACCACAAAAA 6885  
||||||||||||||||  
Sbjct 61 AGTGACGACCACAAAAA 76  
Lambda K H  
0.634 0.408 0.912  
Gapped  
Lambda K H  
0.625 0.410 0.780  
Effective search space used: 734367473

**Query=P35S\_1SEQ\_REF\_NOVA\_Cauliflower\_mosaic\_virus\_- NC\_001497.1**

Length=8024

Sequences producing significant alignments:

lcl|Amplicon\_47 non-redundant amplicon of 6422 matches  
lcl|Amplicon\_194 non-redundant amplicon of 40 matches  
lcl|Amplicon\_152 non-redundant amplicon of 66 matches  
lcl|Amplicon\_723 non-redundant amplicon of 2 matches  
lcl|Amplicon\_644 non-redundant amplicon of 4 matches  
lcl|Amplicon\_593 non-redundant amplicon of 2 matches  
lcl|Amplicon\_509 non-redundant amplicon of 4 matches  
lcl|Amplicon\_97 non-redundant amplicon of 12 matches  
lcl|Amplicon\_78 non-redundant amplicon of 6 matches  
lcl|Amplicon\_57 non-redundant amplicon of 14 matches  
lcl|Amplicon\_411 non-redundant amplicon of 10 matches  
lcl|Amplicon\_346 non-redundant amplicon of 12 matches  
lcl|Amplicon\_339 non-redundant amplicon of 6 matches  
lcl|Amplicon\_305 non-redundant amplicon of 6 matches  
lcl|Amplicon\_739 non-redundant amplicon of 4 matches  
lcl|Amplicon\_292 non-redundant amplicon of 6 matches  
lcl|Amplicon\_301 non-redundant amplicon of 24 matches  
lcl|Amplicon\_296 non-redundant amplicon of 4 matches  
lcl|Amplicon\_673 non-redundant amplicon of 4 matches  
lcl|Amplicon\_500 non-redundant amplicon of 10 matches  
lcl|Amplicon\_68 non-redundant amplicon of 12 matches  
lcl|Amplicon\_201 non-redundant amplicon of 182 matches  
lcl|Amplicon\_735 non-redundant amplicon of 4 matches  
lcl|Amplicon\_674 non-redundant amplicon of 6 matches  
lcl|Amplicon\_671 non-redundant amplicon of 2 matches  
lcl|Amplicon\_383 non-redundant amplicon of 18 matches

Score (Bits)	E Value
<u>352</u>	4e-98
<u>349</u>	5e-97
<u>349</u>	5e-97
<u>347</u>	2e-96
<u>345</u>	6e-96
<u>345</u>	6e-96
<u>343</u>	2e-95
<u>338</u>	9e-94
<u>338</u>	9e-94
<u>338</u>	9e-94

lcl Amplicon_218	non-redundant amplicon of 8 matches	<a href="#">338</a>	9e-94
lcl Amplicon_33	non-redundant amplicon of 2740 matches	<a href="#">338</a>	9e-94
lcl Amplicon_93	non-redundant amplicon of 62 matches	<a href="#">336</a>	3e-93
lcl Amplicon_218	non-redundant amplicon of 8 matches	<a href="#">338</a>	9e-94
lcl Amplicon_33	non-redundant amplicon of 2740 matches	<a href="#">338</a>	9e-94
lcl Amplicon_93	non-redundant amplicon of 62 matches	<a href="#">336</a>	3e-93
lcl Amplicon_789	non-redundant amplicon of 76 matches	<a href="#">334</a>	1e-92
lcl Amplicon_577	non-redundant amplicon of 2 matches	<a href="#">334</a>	1e-92
lcl Amplicon_501	non-redundant amplicon of 2 matches	<a href="#">334</a>	1e-92
lcl Amplicon_273	non-redundant amplicon of 6 matches	<a href="#">334</a>	1e-92
lcl Amplicon_90	non-redundant amplicon of 6 matches	<a href="#">334</a>	1e-92
lcl Amplicon_71	non-redundant amplicon of 8 matches	<a href="#">334</a>	1e-92
lcl Amplicon_67	non-redundant amplicon of 48 matches	<a href="#">334</a>	1e-92
lcl Amplicon_428	non-redundant amplicon of 8 matches	<a href="#">334</a>	1e-92
lcl Amplicon_200	non-redundant amplicon of 112 matches	<a href="#">334</a>	1e-92
lcl Amplicon_327	non-redundant amplicon of 12 matches	<a href="#">334</a>	1e-92
lcl Amplicon_50	non-redundant amplicon of 308 matches	<a href="#">334</a>	1e-92
lcl Amplicon_12	non-redundant amplicon of 4816 matches	<a href="#">334</a>	1e-92
lcl Amplicon_279	non-redundant amplicon of 28 matches	<a href="#">333</a>	4e-92
lcl Amplicon_353	non-redundant amplicon of 6 matches	<a href="#">333</a>	4e-92
lcl Amplicon_564	non-redundant amplicon of 4 matches	<a href="#">331</a>	1e-91
lcl Amplicon_174	non-redundant amplicon of 78 matches	<a href="#">331</a>	1e-91
lcl Amplicon_615	non-redundant amplicon of 4 matches	<a href="#">329</a>	5e-91
lcl Amplicon_266	non-redundant amplicon of 178 matches	<a href="#">329</a>	5e-91
lcl Amplicon_42	non-redundant amplicon of 18 matches	<a href="#">329</a>	5e-91
lcl Amplicon_358	non-redundant amplicon of 12 matches	<a href="#">327</a>	2e-90
lcl Amplicon_503	non-redundant amplicon of 2 matches	<a href="#">327</a>	2e-90
lcl Amplicon_166	non-redundant amplicon of 44 matches	<a href="#">327</a>	2e-90
lcl Amplicon_18	non-redundant amplicon of 166 matches	<a href="#">327</a>	2e-90
lcl Amplicon_670	non-redundant amplicon of 2 matches	<a href="#">325</a>	6e-90
lcl Amplicon_465	non-redundant amplicon of 4 matches	<a href="#">325</a>	6e-90
lcl Amplicon_245	non-redundant amplicon of 52 matches	<a href="#">325</a>	6e-90
lcl Amplicon_138	non-redundant amplicon of 132 matches	<a href="#">325</a>	6e-90
lcl Amplicon_125	non-redundant amplicon of 742 matches	<a href="#">325</a>	6e-90
lcl Amplicon_714	non-redundant amplicon of 2 matches	<a href="#">324</a>	2e-89
lcl Amplicon_630	non-redundant amplicon of 8 matches	<a href="#">324</a>	2e-89
lcl Amplicon_598	non-redundant amplicon of 2 matches	<a href="#">324</a>	2e-89
lcl Amplicon_268	non-redundant amplicon of 190 matches	<a href="#">324</a>	2e-89
lcl Amplicon_468	non-redundant amplicon of 2 matches	<a href="#">322</a>	7e-89
lcl Amplicon_328	non-redundant amplicon of 18 matches	<a href="#">322</a>	7e-89
lcl Amplicon_740	non-redundant amplicon of 4 matches	<a href="#">322</a>	7e-89
lcl Amplicon_372	non-redundant amplicon of 6 matches	<a href="#">320</a>	3e-88
lcl Amplicon_760	non-redundant amplicon of 2 matches	<a href="#">318</a>	9e-88
lcl Amplicon_751	non-redundant amplicon of 2 matches	<a href="#">318</a>	9e-88
lcl Amplicon_162	non-redundant amplicon of 20 matches	<a href="#">318</a>	9e-88
lcl Amplicon_317	non-redundant amplicon of 10 matches	<a href="#">318</a>	9e-88
lcl Amplicon_459	non-redundant amplicon of 2 matches	<a href="#">316</a>	3e-87
lcl Amplicon_371	non-redundant amplicon of 6 matches	<a href="#">316</a>	3e-87
lcl Amplicon_766	non-redundant amplicon of 4 matches	<a href="#">315</a>	1e-86
lcl Amplicon_289	non-redundant amplicon of 6 matches	<a href="#">313</a>	4e-86
lcl Amplicon_780	non-redundant amplicon of 2 matches	<a href="#">306</a>	6e-84
lcl Amplicon_758	non-redundant amplicon of 2 matches	<a href="#">306</a>	6e-84
lcl Amplicon_375	non-redundant amplicon of 6 matches	<a href="#">289</a>	4e-79
lcl Amplicon_576	non-redundant amplicon of 2 matches	<a href="#">289</a>	4e-79
lcl Amplicon_489	non-redundant amplicon of 4 matches	<a href="#">286</a>	5e-78
lcl Amplicon_131	non-redundant amplicon of 36 matches	<a href="#">260</a>	2e-70
lcl Amplicon_22	non-redundant amplicon of 18 matches	<a href="#">257</a>	3e-69
lcl Amplicon_785	non-redundant amplicon of 2 matches	<a href="#">248</a>	1e-66
lcl Amplicon_621	non-redundant amplicon of 10 matches	<a href="#">248</a>	1e-66
lcl Amplicon_128	non-redundant amplicon of 54 matches	<a href="#">248</a>	1e-66
lcl Amplicon_354	non-redundant amplicon of 5 matches	<a href="#">241</a>	2e-64
lcl Amplicon_36	non-redundant amplicon of 2906 matches	<a href="#">223</a>	5e-59
lcl Amplicon_458	non-redundant amplicon of 11 matches	<a href="#">221</a>	2e-58
lcl Amplicon_261	non-redundant amplicon of 16 matches	<a href="#">221</a>	2e-58
lcl Amplicon_119	non-redundant amplicon of 56 matches	<a href="#">221</a>	2e-58
lcl Amplicon_249	non-redundant amplicon of 392 matches	<a href="#">221</a>	2e-58
lcl Amplicon_178	non-redundant amplicon of 69 matches	<a href="#">221</a>	2e-58
lcl Amplicon_712	non-redundant amplicon of 1 matches	<a href="#">219</a>	6e-58
lcl Amplicon_484	non-redundant amplicon of 1 matches	<a href="#">219</a>	6e-58
lcl Amplicon_226	non-redundant amplicon of 5 matches	<a href="#">219</a>	6e-58
lcl Amplicon_48	non-redundant amplicon of 966 matches	<a href="#">219</a>	6e-58

lcl Amplicon_442	non-redundant amplicon of 2 matches	<a href="#">217</a>	2e-57
lcl Amplicon_724	non-redundant amplicon of 1 matches	<a href="#">217</a>	2e-57
lcl Amplicon_226	non-redundant amplicon of 5 matches	<a href="#">219</a>	6e-58
lcl Amplicon_48	non-redundant amplicon of 966 matches	<a href="#">219</a>	6e-58
lcl Amplicon_442	non-redundant amplicon of 2 matches	<a href="#">217</a>	2e-57
lcl Amplicon_724	non-redundant amplicon of 1 matches	<a href="#">217</a>	2e-57
lcl Amplicon_681	non-redundant amplicon of 2 matches	<a href="#">217</a>	2e-57
lcl Amplicon_678	non-redundant amplicon of 1 matches	<a href="#">217</a>	2e-57
lcl Amplicon_594	non-redundant amplicon of 1 matches	<a href="#">217</a>	2e-57
lcl Amplicon_79	non-redundant amplicon of 3 matches	<a href="#">217</a>	2e-57
lcl Amplicon_463	non-redundant amplicon of 1 matches	<a href="#">217</a>	2e-57
lcl Amplicon_91	non-redundant amplicon of 3 matches	<a href="#">217</a>	2e-57
lcl Amplicon_98	non-redundant amplicon of 6 matches	<a href="#">217</a>	2e-57
lcl Amplicon_300	non-redundant amplicon of 3 matches	<a href="#">217</a>	2e-57
lcl Amplicon_58	non-redundant amplicon of 7 matches	<a href="#">217</a>	2e-57
lcl Amplicon_332	non-redundant amplicon of 3 matches	<a href="#">217</a>	2e-57
lcl Amplicon_9	non-redundant amplicon of 3 matches	<a href="#">217</a>	2e-57
lcl Amplicon_306	non-redundant amplicon of 3 matches	<a href="#">217</a>	2e-57
lcl Amplicon_741	non-redundant amplicon of 2 matches	<a href="#">217</a>	2e-57
lcl Amplicon_13	non-redundant amplicon of 2835 matches	<a href="#">217</a>	2e-57
lcl Amplicon_695	non-redundant amplicon of 1 matches	<a href="#">215</a>	8e-57
lcl Amplicon_669	non-redundant amplicon of 1 matches	<a href="#">215</a>	8e-57
lcl Amplicon_664	non-redundant amplicon of 1 matches	<a href="#">215</a>	8e-57
lcl Amplicon_662	non-redundant amplicon of 1 matches	<a href="#">215</a>	8e-57
lcl Amplicon_661	non-redundant amplicon of 6 matches	<a href="#">215</a>	8e-57
lcl Amplicon_656	non-redundant amplicon of 1 matches	<a href="#">215</a>	8e-57
lcl Amplicon_297	non-redundant amplicon of 22 matches	<a href="#">215</a>	8e-57
lcl Amplicon_510	non-redundant amplicon of 2 matches	<a href="#">215</a>	8e-57
lcl Amplicon_504	non-redundant amplicon of 1 matches	<a href="#">215</a>	8e-57
lcl Amplicon_675	non-redundant amplicon of 1 matches	<a href="#">214</a>	3e-56
lcl Amplicon_378	non-redundant amplicon of 3 matches	<a href="#">214</a>	3e-56
lcl Amplicon_781	non-redundant amplicon of 1 matches	<a href="#">214</a>	3e-56
lcl Amplicon_733	non-redundant amplicon of 1 matches	<a href="#">214</a>	3e-56
lcl Amplicon_718	non-redundant amplicon of 1 matches	<a href="#">214</a>	3e-56
lcl Amplicon_715	non-redundant amplicon of 1 matches	<a href="#">214</a>	3e-56
lcl Amplicon_694	non-redundant amplicon of 2 matches	<a href="#">214</a>	3e-56
lcl Amplicon_666	non-redundant amplicon of 22 matches	<a href="#">214</a>	3e-56
lcl Amplicon_592	non-redundant amplicon of 1 matches	<a href="#">214</a>	3e-56
lcl Amplicon_476	non-redundant amplicon of 1 matches	<a href="#">214</a>	3e-56
lcl Amplicon_469	non-redundant amplicon of 1 matches	<a href="#">214</a>	3e-56
lcl Amplicon_287	non-redundant amplicon of 6 matches	<a href="#">214</a>	3e-56
lcl Amplicon_153	non-redundant amplicon of 25 matches	<a href="#">214</a>	3e-56
lcl Amplicon_43	non-redundant amplicon of 9 matches	<a href="#">214</a>	3e-56
lcl Amplicon_45	non-redundant amplicon of 597 matches	<a href="#">214</a>	3e-56
lcl Amplicon_139	non-redundant amplicon of 84 matches	<a href="#">214</a>	3e-56
lcl Amplicon_659	non-redundant amplicon of 1 matches	<a href="#">212</a>	9e-56
lcl Amplicon_645	non-redundant amplicon of 2 matches	<a href="#">212</a>	9e-56
lcl Amplicon_631	non-redundant amplicon of 4 matches	<a href="#">212</a>	9e-56
lcl Amplicon_585	non-redundant amplicon of 3 matches	<a href="#">212</a>	9e-56
lcl Amplicon_290	non-redundant amplicon of 3 matches	<a href="#">212</a>	9e-56
lcl Amplicon_238	non-redundant amplicon of 44 matches	<a href="#">212</a>	9e-56
lcl Amplicon_687	non-redundant amplicon of 2 matches	<a href="#">210</a>	3e-55
lcl Amplicon_623	non-redundant amplicon of 1 matches	<a href="#">210</a>	3e-55
lcl Amplicon_514	non-redundant amplicon of 1 matches	<a href="#">210</a>	3e-55
lcl Amplicon_454	non-redundant amplicon of 1 matches	<a href="#">210</a>	3e-55
lcl Amplicon_340	non-redundant amplicon of 3 matches	<a href="#">210</a>	3e-55
lcl Amplicon_732	non-redundant amplicon of 4 matches	<a href="#">208</a>	1e-54
lcl Amplicon_730	non-redundant amplicon of 2 matches	<a href="#">208</a>	1e-54
lcl Amplicon_727	non-redundant amplicon of 1 matches	<a href="#">208</a>	1e-54
lcl Amplicon_711	non-redundant amplicon of 2 matches	<a href="#">208</a>	1e-54
lcl Amplicon_699	non-redundant amplicon of 4 matches	<a href="#">208</a>	1e-54
lcl Amplicon_691	non-redundant amplicon of 4 matches	<a href="#">208</a>	1e-54
lcl Amplicon_668	non-redundant amplicon of 4 matches	<a href="#">208</a>	1e-54
lcl Amplicon_467	non-redundant amplicon of 1 matches	<a href="#">208</a>	1e-54
lcl Amplicon_460	non-redundant amplicon of 1 matches	<a href="#">208</a>	1e-54
lcl Amplicon_736	non-redundant amplicon of 2 matches	<a href="#">208</a>	1e-54
lcl Amplicon_359	non-redundant amplicon of 6 matches	<a href="#">206</a>	4e-54
lcl Amplicon_163	non-redundant amplicon of 10 matches	<a href="#">206</a>	4e-54
lcl Amplicon_150	non-redundant amplicon of 13 matches	<a href="#">205</a>	1e-53
lcl Amplicon_731	non-redundant amplicon of 2 matches	<a href="#">205</a>	1e-53
lcl Amplicon_720	non-redundant amplicon of 2 matches	<a href="#">205</a>	1e-53

lcl Amplicon_713	non-redundant amplicon of 2 matches	<a href="#">205</a>	1e-53
lcl Amplicon_709	non-redundant amplicon of 2 matches	<a href="#">205</a>	1e-53
lcl Amplicon_731	non-redundant amplicon of 2 matches	<a href="#">205</a>	1e-53
lcl Amplicon_720	non-redundant amplicon of 2 matches	<a href="#">205</a>	1e-53
lcl Amplicon_713	non-redundant amplicon of 2 matches	<a href="#">205</a>	1e-53
lcl Amplicon_709	non-redundant amplicon of 2 matches	<a href="#">205</a>	1e-53
lcl Amplicon_707	non-redundant amplicon of 1 matches	<a href="#">205</a>	1e-53
lcl Amplicon_703	non-redundant amplicon of 4 matches	<a href="#">205</a>	1e-53
lcl Amplicon_698	non-redundant amplicon of 14 matches	<a href="#">205</a>	1e-53
lcl Amplicon_697	non-redundant amplicon of 2 matches	<a href="#">205</a>	1e-53
lcl Amplicon_693	non-redundant amplicon of 2 matches	<a href="#">205</a>	1e-53
lcl Amplicon_286	non-redundant amplicon of 7 matches	<a href="#">203</a>	5e-53
lcl Amplicon_774	non-redundant amplicon of 1 matches	<a href="#">203</a>	5e-53
lcl Amplicon_710	non-redundant amplicon of 2 matches	<a href="#">203</a>	5e-53
lcl Amplicon_665	non-redundant amplicon of 8 matches	<a href="#">203</a>	5e-53
lcl Amplicon_761	non-redundant amplicon of 1 matches	<a href="#">201</a>	2e-52
lcl Amplicon_700	non-redundant amplicon of 2 matches	<a href="#">199</a>	6e-52
lcl Amplicon_692	non-redundant amplicon of 2 matches	<a href="#">199</a>	6e-52
lcl Amplicon_605	non-redundant amplicon of 2 matches	<a href="#">199</a>	6e-52
lcl Amplicon_599	non-redundant amplicon of 1 matches	<a href="#">199</a>	6e-52
lcl Amplicon_513	non-redundant amplicon of 2 matches	<a href="#">199</a>	6e-52
lcl Amplicon_706	non-redundant amplicon of 2 matches	<a href="#">196</a>	7e-51
lcl Amplicon_690	non-redundant amplicon of 2 matches	<a href="#">196</a>	7e-51
lcl Amplicon_686	non-redundant amplicon of 2 matches	<a href="#">196</a>	7e-51
lcl Amplicon_683	non-redundant amplicon of 2 matches	<a href="#">196</a>	7e-51
lcl Amplicon_545	non-redundant amplicon of 12 matches	<a href="#">196</a>	7e-51
lcl Amplicon_321	non-redundant amplicon of 10 matches	<a href="#">196</a>	7e-51
lcl Amplicon_313	non-redundant amplicon of 7 matches	<a href="#">187</a>	4e-48
lcl Amplicon_314	non-redundant amplicon of 7 matches	<a href="#">187</a>	4e-48
lcl Amplicon_105	non-redundant amplicon of 183 matches	<a href="#">185</a>	1e-47
lcl Amplicon_104	non-redundant amplicon of 168 matches	<a href="#">185</a>	1e-47
lcl Amplicon_109	non-redundant amplicon of 45 matches	<a href="#">185</a>	1e-47
lcl Amplicon_108	non-redundant amplicon of 45 matches	<a href="#">185</a>	1e-47
lcl Amplicon_318	non-redundant amplicon of 5 matches	<a href="#">179</a>	6e-46
lcl Amplicon_457	non-redundant amplicon of 1 matches	<a href="#">170</a>	3e-43
lcl Amplicon_721	non-redundant amplicon of 10 matches	<a href="#">168</a>	1e-42
lcl Amplicon_376	non-redundant amplicon of 3 matches	<a href="#">163</a>	4e-41
lcl Amplicon_722	non-redundant amplicon of 2 matches	<a href="#">163</a>	4e-41
lcl Amplicon_629	non-redundant amplicon of 1 matches	<a href="#">161</a>	1e-40
lcl Amplicon_490	non-redundant amplicon of 1 matches	<a href="#">161</a>	1e-40
lcl Amplicon_202	non-redundant amplicon of 22 matches	<a href="#">159</a>	5e-40
lcl Amplicon_373	non-redundant amplicon of 3 matches	<a href="#">156</a>	6e-39
lcl Amplicon_448	non-redundant amplicon of 4 matches	<a href="#">152</a>	8e-38
lcl Amplicon_602	non-redundant amplicon of 2 matches	<a href="#">152</a>	8e-38
lcl Amplicon_447	non-redundant amplicon of 4 matches	<a href="#">152</a>	8e-38
lcl Amplicon_23	non-redundant amplicon of 9 matches	<a href="#">150</a>	3e-37
lcl Amplicon_14	non-redundant amplicon of 22510 matches	<a href="#">149</a>	9e-37
lcl Amplicon_616	non-redundant amplicon of 4 matches	<a href="#">147</a>	3e-36
lcl Amplicon_734	non-redundant amplicon of 4 matches	<a href="#">147</a>	3e-36
lcl Amplicon_565	non-redundant amplicon of 4 matches	<a href="#">145</a>	1e-35
lcl Amplicon_175	non-redundant amplicon of 134 matches	<a href="#">145</a>	1e-35
lcl Amplicon_126	non-redundant amplicon of 778 matches	<a href="#">145</a>	1e-35
lcl Amplicon_429	non-redundant amplicon of 8 matches	<a href="#">143</a>	4e-35
lcl Amplicon_672	non-redundant amplicon of 2 matches	<a href="#">143</a>	4e-35
lcl Amplicon_579	non-redundant amplicon of 2 matches	<a href="#">143</a>	4e-35
lcl Amplicon_511	non-redundant amplicon of 4 matches	<a href="#">143</a>	4e-35
lcl Amplicon_219	non-redundant amplicon of 10 matches	<a href="#">143</a>	4e-35
lcl Amplicon_466	non-redundant amplicon of 10 matches	<a href="#">143</a>	4e-35
lcl Amplicon_60	non-redundant amplicon of 14 matches	<a href="#">143</a>	4e-35
lcl Amplicon_59	non-redundant amplicon of 14 matches	<a href="#">143</a>	4e-35
lcl Amplicon_341	non-redundant amplicon of 6 matches	<a href="#">143</a>	4e-35
lcl Amplicon_44	non-redundant amplicon of 18 matches	<a href="#">143</a>	4e-35
lcl Amplicon_10	non-redundant amplicon of 5176 matches	<a href="#">143</a>	4e-35
lcl Amplicon_716	non-redundant amplicon of 2 matches	<a href="#">141</a>	1e-34
lcl Amplicon_293	non-redundant amplicon of 6 matches	<a href="#">141</a>	1e-34
lcl Amplicon_291	non-redundant amplicon of 6 matches	<a href="#">141</a>	1e-34
lcl Amplicon_302	non-redundant amplicon of 42 matches	<a href="#">141</a>	1e-34
lcl Amplicon_129	non-redundant amplicon of 9 matches	<a href="#">141</a>	1e-34
lcl Amplicon_667	non-redundant amplicon of 28 matches	<a href="#">140</a>	5e-34
lcl Amplicon_461	non-redundant amplicon of 2 matches	<a href="#">140</a>	5e-34
lcl Amplicon_69	non-redundant amplicon of 12 matches	<a href="#">140</a>	5e-34

lcl Amplicon_374	non-redundant amplicon of 6 matches	<a href="#">140</a>	5e-34
lcl Amplicon_360	non-redundant amplicon of 12 matches	<a href="#">140</a>	5e-34
lcl Amplicon_461	non-redundant amplicon of 2 matches	<a href="#">140</a>	5e-34
lcl Amplicon_69	non-redundant amplicon of 12 matches	<a href="#">140</a>	5e-34
lcl Amplicon_374	non-redundant amplicon of 6 matches	<a href="#">140</a>	5e-34
lcl Amplicon_360	non-redundant amplicon of 12 matches	<a href="#">140</a>	5e-34
lcl Amplicon_330	non-redundant amplicon of 18 matches	<a href="#">140</a>	5e-34
lcl Amplicon_51	non-redundant amplicon of 1198 matches	<a href="#">140</a>	5e-34
lcl Amplicon_624	non-redundant amplicon of 1 matches	<a href="#">138</a>	2e-33
lcl Amplicon_728	non-redundant amplicon of 1 matches	<a href="#">138</a>	2e-33
lcl Amplicon_725	non-redundant amplicon of 1 matches	<a href="#">138</a>	2e-33
lcl Amplicon_696	non-redundant amplicon of 1 matches	<a href="#">138</a>	2e-33
lcl Amplicon_682	non-redundant amplicon of 2 matches	<a href="#">138</a>	2e-33
lcl Amplicon_679	non-redundant amplicon of 1 matches	<a href="#">138</a>	2e-33
lcl Amplicon_657	non-redundant amplicon of 1 matches	<a href="#">138</a>	2e-33
lcl Amplicon_595	non-redundant amplicon of 1 matches	<a href="#">138</a>	2e-33
lcl Amplicon_538	non-redundant amplicon of 1 matches	<a href="#">138</a>	2e-33
lcl Amplicon_512	non-redundant amplicon of 2 matches	<a href="#">138</a>	2e-33
lcl Amplicon_92	non-redundant amplicon of 3 matches	<a href="#">138</a>	2e-33
lcl Amplicon_99	non-redundant amplicon of 6 matches	<a href="#">138</a>	2e-33
lcl Amplicon_80	non-redundant amplicon of 3 matches	<a href="#">138</a>	2e-33
lcl Amplicon_312	non-redundant amplicon of 6 matches	<a href="#">138</a>	2e-33
lcl Amplicon_333	non-redundant amplicon of 3 matches	<a href="#">138</a>	2e-33
lcl Amplicon_307	non-redundant amplicon of 3 matches	<a href="#">138</a>	2e-33
lcl Amplicon_742	non-redundant amplicon of 2 matches	<a href="#">138</a>	2e-33
lcl Amplicon_16	non-redundant amplicon of 2860 matches	<a href="#">138</a>	2e-33
lcl Amplicon_622	non-redundant amplicon of 10 matches	<a href="#">136</a>	6e-33
lcl Amplicon_505	non-redundant amplicon of 1 matches	<a href="#">136</a>	6e-33
lcl Amplicon_597	non-redundant amplicon of 4 matches	<a href="#">136</a>	6e-33
lcl Amplicon_11	non-redundant amplicon of 4568 matches	<a href="#">136</a>	6e-33
lcl Amplicon_470	non-redundant amplicon of 1 matches	<a href="#">134</a>	2e-32
lcl Amplicon_361	non-redundant amplicon of 6 matches	<a href="#">134</a>	2e-32
lcl Amplicon_408	non-redundant amplicon of 3 matches	<a href="#">134</a>	2e-32
lcl Amplicon_759	non-redundant amplicon of 2 matches	<a href="#">134</a>	2e-32
lcl Amplicon_719	non-redundant amplicon of 1 matches	<a href="#">134</a>	2e-32
lcl Amplicon_717	non-redundant amplicon of 1 matches	<a href="#">134</a>	2e-32
lcl Amplicon_705	non-redundant amplicon of 2 matches	<a href="#">134</a>	2e-32
lcl Amplicon_704	non-redundant amplicon of 2 matches	<a href="#">134</a>	2e-32
lcl Amplicon_701	non-redundant amplicon of 1 matches	<a href="#">134</a>	2e-32
lcl Amplicon_688	non-redundant amplicon of 2 matches	<a href="#">134</a>	2e-32
lcl Amplicon_684	non-redundant amplicon of 2 matches	<a href="#">134</a>	2e-32
lcl Amplicon_680	non-redundant amplicon of 1 matches	<a href="#">134</a>	2e-32
lcl Amplicon_676	non-redundant amplicon of 1 matches	<a href="#">134</a>	2e-32
lcl Amplicon_660	non-redundant amplicon of 2 matches	<a href="#">134</a>	2e-32
lcl Amplicon_151	non-redundant amplicon of 13 matches	<a href="#">134</a>	2e-32
lcl Amplicon_515	non-redundant amplicon of 1 matches	<a href="#">134</a>	2e-32
lcl Amplicon_477	non-redundant amplicon of 1 matches	<a href="#">134</a>	2e-32
lcl Amplicon_288	non-redundant amplicon of 6 matches	<a href="#">134</a>	2e-32
lcl Amplicon_154	non-redundant amplicon of 25 matches	<a href="#">134</a>	2e-32
lcl Amplicon_319	non-redundant amplicon of 10 matches	<a href="#">134</a>	2e-32
lcl Amplicon_120	non-redundant amplicon of 108 matches	<a href="#">134</a>	2e-32
lcl Amplicon_231	non-redundant amplicon of 30 matches	<a href="#">134</a>	2e-32
lcl Amplicon_737	non-redundant amplicon of 2 matches	<a href="#">134</a>	2e-32
lcl Amplicon_140	non-redundant amplicon of 93 matches	<a href="#">134</a>	2e-32
lcl Amplicon_46	non-redundant amplicon of 641 matches	<a href="#">134</a>	2e-32
lcl Amplicon_620	non-redundant amplicon of 2 matches	<a href="#">132</a>	7e-32
lcl Amplicon_255	non-redundant amplicon of 11 matches	<a href="#">132</a>	7e-32
lcl Amplicon_606	non-redundant amplicon of 1 matches	<a href="#">132</a>	7e-32
lcl Amplicon_464	non-redundant amplicon of 1 matches	<a href="#">132</a>	7e-32
lcl Amplicon_658	non-redundant amplicon of 1 matches	<a href="#">131</a>	3e-31
lcl Amplicon_762	non-redundant amplicon of 1 matches	<a href="#">131</a>	3e-31
lcl Amplicon_729	non-redundant amplicon of 1 matches	<a href="#">131</a>	3e-31
lcl Amplicon_726	non-redundant amplicon of 1 matches	<a href="#">131</a>	3e-31
lcl Amplicon_708	non-redundant amplicon of 1 matches	<a href="#">131</a>	3e-31
lcl Amplicon_702	non-redundant amplicon of 1 matches	<a href="#">131</a>	3e-31
lcl Amplicon_689	non-redundant amplicon of 2 matches	<a href="#">131</a>	3e-31
lcl Amplicon_685	non-redundant amplicon of 2 matches	<a href="#">131</a>	3e-31
lcl Amplicon_677	non-redundant amplicon of 1 matches	<a href="#">131</a>	3e-31
lcl Amplicon_663	non-redundant amplicon of 1 matches	<a href="#">131</a>	3e-31
lcl Amplicon_632	non-redundant amplicon of 4 matches	<a href="#">131</a>	3e-31
lcl Amplicon_596	non-redundant amplicon of 1 matches	<a href="#">131</a>	3e-31

lcl Amplicon_539	non-redundant amplicon of 1 matches	<a href="#">131</a>	3e-31
lcl Amplicon_632	non-redundant amplicon of 4 matches	<a href="#">131</a>	3e-31
lcl Amplicon_596	non-redundant amplicon of 1 matches	<a href="#">131</a>	3e-31
lcl Amplicon_539	non-redundant amplicon of 1 matches	<a href="#">131</a>	3e-31
lcl Amplicon_81	non-redundant amplicon of 3 matches	<a href="#">131</a>	3e-31
lcl Amplicon_412	non-redundant amplicon of 5 matches	<a href="#">131</a>	3e-31
lcl Amplicon_334	non-redundant amplicon of 3 matches	<a href="#">131</a>	3e-31
lcl Amplicon_19	non-redundant amplicon of 1106 matches	<a href="#">131</a>	3e-31
lcl Amplicon_308	non-redundant amplicon of 3 matches	<a href="#">131</a>	3e-31
lcl Amplicon_743	non-redundant amplicon of 2 matches	<a href="#">131</a>	3e-31
lcl Amplicon_625	non-redundant amplicon of 1 matches	<a href="#">129</a>	9e-31
lcl Amplicon_506	non-redundant amplicon of 1 matches	<a href="#">129</a>	9e-31
lcl Amplicon_462	non-redundant amplicon of 1 matches	<a href="#">129</a>	9e-31
lcl Amplicon_121	non-redundant amplicon of 63 matches	<a href="#">129</a>	9e-31
lcl Amplicon_738	non-redundant amplicon of 2 matches	<a href="#">129</a>	9e-31
lcl Amplicon_379	non-redundant amplicon of 3 matches	<a href="#">127</a>	3e-30
lcl Amplicon_362	non-redundant amplicon of 6 matches	<a href="#">127</a>	3e-30
lcl Amplicon_600	non-redundant amplicon of 1 matches	<a href="#">127</a>	3e-30
lcl Amplicon_478	non-redundant amplicon of 1 matches	<a href="#">127</a>	3e-30
lcl Amplicon_203	non-redundant amplicon of 17 matches	<a href="#">127</a>	3e-30
lcl Amplicon_155	non-redundant amplicon of 13 matches	<a href="#">127</a>	3e-30
lcl Amplicon_164	non-redundant amplicon of 10 matches	<a href="#">127</a>	3e-30
lcl Amplicon_204	non-redundant amplicon of 28 matches	<a href="#">127</a>	3e-30
lcl Amplicon_141	non-redundant amplicon of 87 matches	<a href="#">127</a>	3e-30
lcl Amplicon_782	non-redundant amplicon of 2 matches	<a href="#">125</a>	1e-29
lcl Amplicon_497	non-redundant amplicon of 2 matches	<a href="#">125</a>	1e-29
lcl Amplicon_377	non-redundant amplicon of 6 matches	<a href="#">123</a>	4e-29
lcl Amplicon_232	non-redundant amplicon of 19 matches	<a href="#">122</a>	1e-28
lcl Amplicon_165	non-redundant amplicon of 10 matches	<a href="#">120</a>	5e-28
lcl Amplicon_495	non-redundant amplicon of 1 matches	<a href="#">114</a>	2e-26
lcl Amplicon_205	non-redundant amplicon of 17 matches	<a href="#">114</a>	2e-26
lcl Amplicon_326	non-redundant amplicon of 9 matches	<a href="#">104</a>	4e-23
lcl Amplicon_132	non-redundant amplicon of 9 matches	<a href="#">102</a>	1e-22
lcl Amplicon_355	non-redundant amplicon of 8 matches	<a href="#">100</a>	4e-22
lcl Amplicon_492	non-redundant amplicon of 2 matches	<a href="#">96.9</a>	5e-21
lcl Amplicon_491	non-redundant amplicon of 2 matches	<a href="#">91.5</a>	2e-19
lcl Amplicon_24	non-redundant amplicon of 9 matches	<a href="#">87.8</a>	3e-18
lcl Amplicon_133	non-redundant amplicon of 18 matches	<a href="#">80.6</a>	4e-16
lcl Amplicon_130	non-redundant amplicon of 27 matches	<a href="#">78.8</a>	1e-15
lcl Amplicon_182	non-redundant amplicon of 20 matches	<a href="#">75.2</a>	2e-14
lcl Amplicon_206	non-redundant amplicon of 22 matches	<a href="#">71.6</a>	2e-13

>[lcl|Amplicon\\_47 non-redundant amplicon of 6422 matches](#)

Length=195

Score = 352 bits (390), Expect = 4e-98

Identities = 195/195 (100%), Gaps = 0/195 (0%)

Strand=Plus/Plus

Query	7190	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG	7249
-------	------	--	------

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

Sbjct	1	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG	60
-------	---	--	----

Query	7250	ACAGTGGTCCCAAAGATGGACCCCCCACCCACGGAGGAGCATCGTGGAAAAAGAACGTTC	7309
-------	------	--	------

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

Sbjct	61	ACAGTGGTCCCAAAGATGGACCCCCCACCCACGGAGGAGCATCGTGGAAAAAGAACGTTC	120
-------	----	--	-----

Query	7310	CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	7369
-------	------	---	------

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

Sbjct	121	CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	180
-------	-----	---	-----

Query	7370	CACAATCCCCTACTATC	7384
-------	------	-------------------	------

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

Sbjct	181	CACAATCCCCTACTATC	195
-------	-----	-------------------	-----

>[lcl|Amplicon\\_194 non-redundant amplicon of 40 matches](#)

Length=195

Score = 349 bits (386), Expect = 5e-97

Identities = 193/193 (100%), Gaps = 0/193 (0%)

Strand=Plus/Plus

Query	7190	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG	7249
-------	------	--	------

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

Sbjct	1	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG	60
-------	---	--	----

Query	7250	ACAGTGGTCCCAAAGATGGACCCCCCACCCACGGAGGAGCATCGTGGAAAAAGAACGTTC	7309
-------	------	--	------

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

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
Query 7370 CACAATCCCACTA 7382  
||||||||||||  
Sbjct 181 CACAATCCCACTA 193  
>lcl|Amplicon 152 non-redundant amplicon of 66 matches  
Length=195  
Score = 349 bits (386), Expect = 5e-97  
Identities = 193/193 (100%), Gaps = 0/193 (0%)  
Strand=Plus/Plus  
Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG 7249  
||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG 60  
Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 7309  
||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
Query 7370 CACAATCCCACTA 7382  
||||||||||||  
Sbjct 181 CACAATCCCACTA 193  
>lcl|Amplicon 723 non-redundant amplicon of 2 matches  
Length=195  
Score = 347 bits (384), Expect = 2e-96  
Identities = 194/195 (99%), Gaps = 0/195 (0%)  
Strand=Plus/Plus  
Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG 7249  
||||||||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG 60  
Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 7309  
||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCCCCACTGACGTAAGGGATGACG 180  
Query 7370 CACAATCCCACTATC 7384  
||||||||||||  
Sbjct 181 CACAATCCCACTATC 195  
Query 7370 CACAATCCCACTATC 7384  
||||||||||||  
Sbjct 181 CACAATCCCACTATC 195  
>lcl|Amplicon 644 non-redundant amplicon of 4 matches Length=195  
Score = 347 bits (384), Expect = 2e-96  
Identities = 194/195 (99%), Gaps = 0/195 (0%)  
Strand=Plus/Plus  
Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG 7249  
|| ||||||||||||||||||||||||||||||  
Sbjct 1 GCCCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG 60  
Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 7309  
||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
Query 7370 CACAATCCCACTATC 7384  
||||||||||||  
Sbjct 181 CACAATCCCACTATC 195  
>lcl|Amplicon 593 non-redundant amplicon of 2 matches  
Length=195  
Score = 347 bits (384), Expect = 2e-96  
Identities = 194/195 (99%), Gaps = 0/195 (0%)  
Strand=Plus/Plus  
Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG 7249  
|| ||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG 60

Query 7250 ACAGTGGTCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 7309  
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 61 ACAGTGGTCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
 Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
 Query 7370 CACAATCCCAC T 7384  
           | |||||||||||||  
 Sbjct 181 CTC AATCCCAC T 195  
>lcl|Amplicon 509 non-redundant amplicon of 4 matches Length=195  
 Score = 347 bits (384), Expect = 2e-96  
 Identities = 194/195 (99%), Gaps = 0/195 (0%)  
 Strand=Plus/Plus  
 Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG 7249  
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG 60  
 Query 7250 ACAGTGGTCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 7309  
           ||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 61 ACAGTGGTCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
 Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
           ||||||||| ||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 121 CAACCACGTATTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
 Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
           ||||||||| ||||||||||||||||||||||||||||||||||||||  
 Sbjct 121 CAACCACGTATTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
 Query 7370 CACAATCCCAC T 7384  
           |||||||||||||||  
 Sbjct 181 CACAATCCCAC T 195  
>lcl|Amplicon 97 non-redundant amplicon of 12 matches Length=195  
 Score = 347 bits (384), Expect = 2e-96  
 Identities = 194/195 (99%), Gaps = 0/195 (0%)  
 Strand=Plus/Plus  
 Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG 7249  
           ||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG 60  
 Query 7250 ACAGTGGTCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 7309  
           ||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 61 ACAGTGGTCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
 Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
           ||||||||| ||||||||||||||||||||||||||||||  
 Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
 Query 7370 CACAATCCCAC T 7384  
           |||||||||||||||  
 Sbjct 181 CACAATCCCAC T 195  
>lcl|Amplicon 78 non-redundant amplicon of 6 matches Length=195  
 Score = 347 bits (384), Expect = 2e-96  
 Identities = 194/195 (99%), Gaps = 0/195 (0%)  
 Strand=Plus/Plus  
 Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG 7249  
           ||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG 60  
 Query 7250 ACAGTGGTCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 7309  
           ||||||||||||||||||||||||||||||||||||||||  
 Sbjct 61 ACAGTGGTCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
 Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
           ||||||||| ||||||||||||||||||||||||||  
 Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
 Query 7370 CACAATCCCAC T 7384  
           |||||||||||||||  
 Sbjct 181 CACAATCCCAC T 195  
>lcl|Amplicon 57 non-redundant amplicon of 14 matches Length=195  
 Score = 347 bits (384), Expect = 2e-96  
 Identities = 194/195 (99%), Gaps = 0/195 (0%)  
 Strand=Plus/Plus  
 Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG 7249  
           ||||||||||||||||||||||||||||||||||||||||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG 60  
 Query 7250 ACAGTGGTCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 7309

Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 7309  
 |||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
 Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
 |||||||  
 Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
 Query 7370 CACAATCCCCTACTATC 7384  
 |||||||  
 Sbjct 181 CACAATCCCCTACTATC 195

>lcl|Amplicon 411 non-redundant amplicon of 10 matches  
 Length=195  
 Score = 347 bits (384), Expect = 2e-96  
 Identities = 194/195 (99%), Gaps = 0/195 (0%)  
 Strand=Plus/Plus

Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
 |||||||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 7309  
 |||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
 Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
 |||||||  
 Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
 Query 7370 CACAATCCCCTACTATC 7384  
 |||||||  
 Sbjct 181 CACAATCCCCTACTATC 195

>lcl|Amplicon 346 non-redundant amplicon of 12 matches  
 Length=195  
 Score = 347 bits (384), Expect = 2e-96  
 Identities = 194/195 (99%), Gaps = 0/195 (0%)  
 Strand=Plus/Plus

Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
 |||||||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 7309  
 |||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
 Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
 |||||||  
 Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
 Query 7370 CACAATCCCCTACTATC 7384  
 |||||||  
 Sbjct 181 CACAATCCCCTACTATC 195

>lcl|Amplicon 339 non-redundant amplicon of 6 matches Length=195  
 Score = 347 bits (384), Expect = 2e-96  
 Identities = 194/195 (99%), Gaps = 0/195 (0%)  
 Strand=Plus/Plus  
 Identities = 194/195 (99%), Gaps = 0/195 (0%)  
 Strand=Plus/Plus

Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
 |||||||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 7309  
 |||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
 Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
 |||||||  
 Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
 Query 7370 CACAATCCCCTACTATC 7384  
 |||||||  
 Sbjct 181 CACAATCCCCTACTATC 195

>lcl|Amplicon 305 non-redundant amplicon of 6 matches Length=195  
 Score = 347 bits (384), Expect = 2e-96  
 Identities = 194/195 (99%), Gaps = 0/195 (0%)  
 Strand=Plus/Plus  
 Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249

Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTT 7309  
 |||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTT 120  
 Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
 |||||||  
 Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
 Query 7370 CACAATCCCACTATC 7384  
 |||||  
 Sbjct 181 CACTATCCCACTATC 195  
>lcl|Amplicon 739 non-redundant amplicon of 4 matches  
 Length=195  
 Score = 347 bits (384), Expect = 2e-96  
 Identities = 194/195 (99%), Gaps = 0/195 (0%)  
 Strand=Plus/Plus  
 Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
 |||||||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTT 7309  
 |||||||  
 Sbjct 61 ACAGTTGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTT 120  
 Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
 |||||||  
 Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
 Query 7370 CACAATCCCACTATC 7384  
 |||||  
 Sbjct 181 CACAATCCCACTATC 195  
>lcl|Amplicon 292 non-redundant amplicon of 6 matches Length=196  
>lcl|Amplicon 292 non-redundant amplicon of 6 matches Length=196  
 Score = 345 bits (382), Expect = 6e-96  
 Identities = 195/196 (99%), Gaps = 1/196 (1%)  
 Strand=Plus/Plus  
 Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
 |||||||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCC-ACGAGGAGCATCGTGGAAAAAGAACGTT 7308  
 |||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTT 120  
 Query 7309 CCAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 7368  
 |||||||  
 Sbjct 121 CCAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 180  
 Query 7369 GCACAATCCCACTATC 7384  
 |||||  
 Sbjct 181 GCACAATCCCACTATC 196  
>lcl|Amplicon 301 non-redundant amplicon of 24 matches  
 Length=196  
 Score = 345 bits (382), Expect = 6e-96  
 Identities = 195/196 (99%), Gaps = 1/196 (1%)  
 Strand=Plus/Plus  
 Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
 |||||||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGG-AAAAAGAACGTT 7308  
 |||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTT 120  
 Query 7309 CCAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 7368  
 |||||||  
 Sbjct 121 CCAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 180  
 Query 7369 GCACAATCCCACTATC 7384  
 |||||  
 Sbjct 181 GCACAATCCCACTATC 196  
>lcl|Amplicon 296 non-redundant amplicon of 4 matches Length=195  
 Score = 343 bits (380), Expect = 2e-95  
 Identities = 193/195 (99%), Gaps = 0/195 (0%)  
 Strand=Plus/Plus  
 Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
 |||||||

Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 7309  
 |||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
 Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
 |||||||  
 Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATAACTCCACTGACGTAAGGGATGACG 180  
 Query 7370 CACAATCCCACTATC 7384  
 |||||||  
 Sbjct 181 ACAAATCCCACTATC 195  
 >[lcl|Amplicon 673 non-redundant amplicon of 4 matches](#) Length=195  
 Score = 343 bits (380), Expect = 2e-95  
 Identities = 193/195 (99%), Gaps = 0/195 (0%)  
 Strand=Plus/Plus  
 Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
 |||||||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTGCCG 60  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 7309  
 |||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
 Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
 |||||||  
 Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
 Query 7370 CACAATCCCACTATC 7384  
 |||||||  
 Sbjct 181 CACAATCCCACTATC 195  
 >[lcl|Amplicon 500 non-redundant amplicon of 10 matches](#)  
 Length=195  
 Score = 343 bits (380), Expect = 2e-95  
 Identities = 193/195 (99%), Gaps = 0/195 (0%)  
 Strand=Plus/Plus  
 Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
 |||||||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATCTCTGCCG 60  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 7309  
 |||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
 Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
 |||||||  
 Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
 Query 7370 CACAATCCCACTATC 7384  
 |||||||  
 Sbjct 181 CACAATCCCACTATC 195  
 >[lcl|Amplicon 68 non-redundant amplicon of 12 matches](#) Length=194  
 Score = 343 bits (380), Expect = 2e-95  
 Identities = 194/195 (99%), Gaps = 1/195 (1%)  
 Strand=Plus/Plus  
 Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
 |||||||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 7309  
 |||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCA-CGTGGAAAAGAACGTTC 119  
 Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
 |||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCA-CGTGGAAAAGAACGTTC 119  
 Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
 |||||||  
 Sbjct 120 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 179  
 Query 7370 CACAATCCCACTATC 7384  
 |||||||  
 Sbjct 180 CACAATCCCACTATC 194  
 >[lcl|Amplicon 201 non-redundant amplicon of 182 matches](#)  
 Length=195  
 Score = 343 bits (380), Expect = 2e-95

Identities = 193/195 (99%), Gaps = 0/195 (0%)

Strand=Plus/Plus

Query	7190	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG	7249
Sbjct	1	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG	60
Query	7250	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC	7309
Sbjct	61	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC	120
Query	7310	CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	7369
Sbjct	121	CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	180
Query	7370	CACAATCCC ACTATC 7384	
Sbjct	181	AACAATCCC ACTATC 195	

>lcl|Amplicon 735 non-redundant amplicon of 4 matches Length=195

Score = 343 bits (380), Expect = 2e-95

Identities = 194/195 (99%), Gaps = 1/195 (1%)

Strand=Plus/Plus

Query	7190	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG	7249
Sbjct	1	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG	60
Query	7250	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC	7309
Sbjct	61	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC	120
Query	7310	CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	7369
Sbjct	121	CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	180
Query	7370	CACAATCC-CACTAT 7383	
Sbjct	181	CACAATCCGCACTAT 195	

>lcl|Amplicon 674 non-redundant amplicon of 6 matches Length=195

Score = 338 bits (374), Expect = 9e-94

Identities = 192/195 (98%), Gaps = 0/195 (0%)

Strand=Plus/Plus

Query	7190	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG	7249
Sbjct	1	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTCAAGATGCCTCTGCCG	60
Query	7190	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG	7249
Sbjct	1	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTCAAGATGCCTCTGCCG	60
Query	7250	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC	7309
Sbjct	61	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC	120
Query	7310	CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	7369
Sbjct	121	CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	180
Query	7370	CACAATCCC ACTATC 7384	
Sbjct	181	CACAATCCC ACTATC 195	

>lcl|Amplicon 671 non-redundant amplicon of 2 matches

Length=195

Score = 338 bits (374), Expect = 9e-94

Identities = 192/195 (98%), Gaps = 0/195 (0%)

Strand=Plus/Plus

Query	7190	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG	7249
Sbjct	1	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTCAAGATGCCTCTGCCG	60
Query	7250	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC	7309
Sbjct	61	ACAGTGGTCCCAAAGACGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC	120
Query	7310	CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	7369
Sbjct	121	CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	180
Query	7370	CACAATCCC ACTATC 7384	
Sbjct	181	CACAATCCC ACTATC 195	

>lcl|Amplicon 383 non-redundant amplicon of 18 matches

Length=195

Score = 338 bits (374), Expect = 9e-94  
Identities = 192/195 (98%), Gaps = 0/195 (0%)  
Strand=Plus/Plus

Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
|||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTGCCG 60  
Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 7309  
|||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
|||||||||||||||||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG 180  
Query 7370 CACAATCCCCTACT 7384  
|||||||||||||||  
Sbjct 181 CACAATCCCCTACT 195

>[lcl|Amplicon 218 non-redundant amplicon of 8 matches](#) Length=195

Score = 338 bits (374), Expect = 9e-94  
Identities = 192/195 (98%), Gaps = 0/195 (0%)  
Score = 338 bits (374), Expect = 9e-94  
Identities = 192/195 (98%), Gaps = 0/195 (0%)  
Strand=Plus/Plus

Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
|||||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTACCG 60  
Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 7309  
|||||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
|||||||||||||||||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
Query 7370 CACAATCCCCTACT 7384  
|||||||||||||||  
Sbjct 181 CACAATCCCCTACT 195

>[lcl|Amplicon 33 non-redundant amplicon of 2740 matches](#)

Length=195

Score = 338 bits (374), Expect = 9e-94  
Identities = 192/195 (98%), Gaps = 0/195 (0%)  
Strand=Plus/Plus

Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
|| |||||||||||||||||||||||||||||||||||||  
Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTGCCG 60  
Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 7309  
|||||||||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
|||||||||||||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
Query 7370 CACAATCCCCTACT 7384  
|||||||||||||||  
Sbjct 181 CACAATCCCCTACT 195

>[lcl|Amplicon 93 non-redundant amplicon of 62 matches](#)

Length=195

Score = 336 bits (372), Expect = 3e-93  
Identities = 189/191 (99%), Gaps = 0/191 (0%)  
Strand=Plus/Plus

Query 7194 CTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCGACAG 7253  
|||||||||||||||||||||||||||||||||||||||  
Sbjct 5 CTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTGCCGACAG 64  
Query 7254 TGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTCAC 7313  
|||||||||||||||||||||||||||||||||||||||  
Sbjct 65 TGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTCAC 124  
Query 7314 CACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCACA 7373  
|||||||||||||||||||||||||||||||||||  
Sbjct 125 CACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCACA 184  
Query 7374 ATCCCCTACT 7384  
|||||||||||||||  
Sbjct 185 ATCCCCTACT 195  
|||||||||||||||

Sbjct 185 ATCCCCTACTAC 195  
>lcl|Amplicon\_789 non-redundant amplicon of 76 matches  
Length=195  
Score = 334 bits (370), Expect = 1e-92  
Identities = 191/195 (98%), Gaps = 0/195 (0%)  
Strand=Plus/Plus  
Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
|| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 GCACCTACAAATGCCATAATTGCGATAAAGGAAAGGCATCGTTCAAGATGCCTCTGCCG 60  
Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 7309  
|| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
|| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
Query 7370 CACAATCCCCTACTAC 7384  
|| ||||||||||||||  
Sbjct 181 CACAATCCCCTACTAC 195  
>lcl|Amplicon\_577 non-redundant amplicon of 2 matches  
Length=195  
Score = 334 bits (370), Expect = 1e-92  
Identities = 191/195 (98%), Gaps = 0/195 (0%)  
Strand=Plus/Plus  
Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
|| ||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCATCGTTCAAGATGCCTCTGCCG 60  
Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 7309  
|| ||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACAGGAGCATCGTGGAAAAGAACGTTC 120  
Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
|| ||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
Query 7370 CACAATCCCCTACTAC 7384  
|| ||||||||||||||  
Sbjct 181 CACAATCCCCTACTAC 195  
>lcl|Amplicon\_501 non-redundant amplicon of 2 matches  
Length=195  
Score = 334 bits (370), Expect = 1e-92  
Identities = 191/195 (98%), Gaps = 0/195 (0%)  
Strand=Plus/Plus  
Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
|| ||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 GCACCTACAAATGCCATCATTGCGAAAAGGAAAGGCATCGTTCAAGATGCCTCTGCCG 60  
Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 7309  
|| ||||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
|| ||||||||||||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
Query 7370 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
|| ||||||||||||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
Query 7370 CACAATCCCCTACTAC 7384  
|| ||||||||||||||  
Sbjct 181 CACAATCCCCTACTAC 195  
>lcl|Amplicon\_273 non-redundant amplicon of 6 matches Length=195  
Score = 334 bits (370), Expect = 1e-92  
Identities = 191/195 (98%), Gaps = 0/195 (0%)  
Strand=Plus/Plus  
Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
|| ||||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGNCATCGTTCAAGATGCCTCTGCCG 60  
Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 7309  
|| ||||||||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
|| ||||||||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180

Query 7370 CACAATCCCACTATC 7384  
 |||||||  
 Sbjct 181 CACAATCCCACTATC 195  
>lcl|Amplicon 90 non-redundant amplicon of 6 matches  
 Length=195  
 Score = 334 bits (370), Expect = 1e-92  
 Identities = 191/195 (98%), Gaps = 0/195 (0%)  
 Strand=Plus/Plus

Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
 |||||||  
 Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTGCCG 60  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 7309  
 |||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 120  
 Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
 |||||||  
 Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
 Query 7370 CACAATCCCACTATC 7384  
 |||||||  
 Sbjct 181 CACAATCCCACTATC 195  
>lcl|Amplicon 71 non-redundant amplicon of 8 matches Length=194  
 Score = 334 bits (370), Expect = 1e-92  
 Identities = 192/195 (98%), Gaps = 1/195 (1%)  
 Strand=Plus/Plus

Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
 |||||||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 7309  
 |||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACGCACGAGGAGCA-CGTGGAAAACAAGAACGTTC 119  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 7309  
 |||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACGCACGAGGAGCA-CGTGGAAAACAAGAACGTTC 119  
 Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
 |||||||  
 Sbjct 120 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 179  
 Query 7370 CACAATCCCACTATC 7384  
 |||||||  
 Sbjct 180 CACAATCCCACTATC 194  
>lcl|Amplicon 67 non-redundant amplicon of 48 matches Length=195  
 Score = 334 bits (370), Expect = 1e-92  
 Identities = 191/195 (98%), Gaps = 0/195 (0%)  
 Strand=Plus/Plus

Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
 |||||||  
 Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTGCCG 60  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 7309  
 |||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 120  
 Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
 |||||||  
 Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
 Query 7370 CACAATCCCACTATC 7384  
 |||||||  
 Sbjct 181 CACAATCCCACTATC 195  
>lcl|Amplicon 428 non-redundant amplicon of 8 matches  
 Length=195  
 Score = 334 bits (370), Expect = 1e-92  
 Identities = 191/195 (98%), Gaps = 0/195 (0%)  
 Strand=Plus/Plus

Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
 |||||||  
 Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCCTGCCG 60  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 7309  
 |||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 120  
 Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
 |||||||

Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
Query 7370 CACAATCCCACTATC 7384  
|||||||||||||

Sbjct 181 CACAATCCCACTATC 195

>lcl|Amplicon 200 non-redundant amplicon of 112 matches

Length=195

Score = 334 bits (370), Expect = 1e-92  
Identities = 190/193 (98%), Gaps = 0/193 (0%)

Strand=Plus/Plus

Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249

Strand=Plus/Plus

Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGCCTCTGCCG 60

Query 7250 ACAGTGGTCCCAAAGATGGACCCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 7309  
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 120

Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180

Query 7370 CACAATCCCACTA 7382  
|||||||||||||

Sbjct 181 CACAATCCCACTA 193

>lcl|Amplicon 327 non-redundant amplicon of 12 matches

Length=195

Score = 334 bits (370), Expect = 1e-92  
Identities = 191/195 (98%), Gaps = 0/195 (0%)

Strand=Plus/Plus

Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAATGCCTCTGCCG 60

Query 7250 ACAGTGGTCCCAAAGATGGACCCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 7309  
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 120

Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG 180

Query 7370 CACAATCCCACTATC 7384  
|||||||||||||

Sbjct 181 CACAATCCCACTATC 195

>lcl|Amplicon 50 non-redundant amplicon of 308 matches

Length=195

Score = 334 bits (370), Expect = 1e-92  
Identities = 191/195 (98%), Gaps = 0/195 (0%)

Strand=Plus/Plus

Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGCCTCTACCG 60

Query 7250 ACAGTGGTCCCAAAGATGGACCCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 7309  
||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCCACCCACGAGGAACATCGTGGAAAAAGAACGTTTC 120

Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180

Query 7370 CACAATCCCACTATC 7384  
|||||||||||||

Sbjct 181 CACAATCCCACTATC 195

>lcl|Amplicon 12 non-redundant amplicon of 4816 matches

Length=195

>lcl|Amplicon 12 non-redundant amplicon of 4816 matches

Length=195

Score = 334 bits (370), Expect = 1e-92  
Identities = 191/195 (98%), Gaps = 0/195 (0%)

Strand=Plus/Plus

Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
||||||||||||||||||||||||||||||||||||||||||||||

Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATGCCTCTGCCG 60

Query 7250 ACAGTGGTCCCAAAGATGGACCCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 7309  
||||||||||||||||||||||||||||||||||||||||||

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTT 120  
Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG 180  
Query 7370 CACAATCCCACTATC 7384  
||||||||||||  
Sbjct 181 CACAATCCCACTATC 195  
>lcl|Amplicon 279 non-redundant amplicon of 28 matches  
Length=196  
Score = 333 bits (368), Expect = 4e-92  
Identities = 192/196 (98%), Gaps = 1/196 (1%)  
Strand=Plus/Plus  
Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGA-TGCCTCTGCC 7248  
|| ||||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTCAAGAATGCCTCTGCC 60  
Query 7249 GACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTT 7308  
||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 GACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTT 120  
Query 7309 CCAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 7368  
||||||||||||||||||||  
Sbjct 121 CCAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 180  
Query 7369 GCACAATCCCACTATC 7384  
||||||||||||  
Sbjct 181 GCACAATCCCACTATC 196  
>lcl|Amplicon 353 non-redundant amplicon of 6 matches  
Length=196  
Score = 333 bits (368), Expect = 4e-92  
Identities = 192/196 (98%), Gaps = 1/196 (1%)  
Strand=Plus/Plus  
Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAA-GGCCATCGTGAAGATGCCTCTGCC 7248  
|| ||||||||||||||||||||||||||||||||||  
Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAAGGCTATCGTCAAGAATGCCTCTGCC 60  
Query 7249 GACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTT 7308  
||||||||||||||||||||||||||||||||  
Sbjct 61 GACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTT 120  
Query 7309 CCAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 7368  
||||||||||||||||||||||||||||  
Sbjct 121 CCAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 180  
Query 7369 GCACAATCCCACTATC 7384  
||||||||||||  
Sbjct 181 GCACAATCCCACTATC 196  
>lcl|Amplicon 564 non-redundant amplicon of 4 matches Length=195  
Score = 331 bits (366), Expect = 1e-91  
Identities = 190/195 (97%), Gaps = 0/195 (0%)  
Strand=Plus/Plus  
Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG 7249  
|| ||||||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGAATGCCTCTGCCG 60  
Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTT 7309  
||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCNCAGGAGCATCGTGGAAAAGAACGTT 120  
Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGACATCTCCACTGACGTAAGGGATGACG 180  
Query 7370 CACAATCCCACTATC 7384  
||||||||||||  
Sbjct 181 CACAATCCCACTATC 195  
>lcl|Amplicon 174 non-redundant amplicon of 78 matches  
Length=194  
Score = 331 bits (366), Expect = 1e-91  
Identities = 191/195 (98%), Gaps = 1/195 (1%)  
Strand=Plus/Plus  
Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG 7249  
|| ||||||||||||||||||||||||||  
Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTCAAGATGC-TCTGCCG 59

Query 7250 ACAGTGGTCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAAGACGTT 7309  
 |||||||  
 Sbjct 60 ACAGTGGTCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAAGACGTT 119  
 Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
 |||||||  
 Sbjct 120 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 179  
 Query 7370 CACAATCCCCTACTATC 7384  
 |||||||  
 Sbjct 180 CACAATCCCCTACTATC 194  
**>lcl|Amplicon 615 non-redundant amplicon of 4 matches Length=195**  
 Score = 329 bits (364), Expect = 5e-91  
 Identities = 190/195 (97%), Gaps = 0/195 (0%)  
 Strand=Plus/Plus  
 Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG 7249  
 |||||||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTCAAGATGCCTCTGCCG 60  
 Query 7250 ACAGTGGTCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAAGACGTT 7309  
 |||||||  
 Sbjct 61 ACAGTGGTCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAAGACGTT 120  
 Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
 |||||||  
 Sbjct 61 ACAGTGGTCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAAGACGTT 120  
 Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG 7369  
 |||||||  
 Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG 180  
 Query 7370 CACAATCCCCTACTATC 7384  
 |||||||  
 Sbjct 181 CACAATCCCCTACTATC 195  
**>lcl|Amplicon 266 non-redundant amplicon of 178 matches Length=195**  
 Score = 329 bits (364), Expect = 5e-91  
 Identities = 190/195 (97%), Gaps = 0/195 (0%)  
 Strand=Plus/Plus  
 Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG 7249  
 |||||  
 Sbjct 1 GCTTCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTCAAGATGCCTCTACCG 60  
 Query 7250 ACAGTGGTCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAAGACGTT 7309  
 |||||  
 Sbjct 61 ACAGTGGTCCAAAGATGGACCCCCACCCACGAGGAAACATCGTGGAAAAGAAGACGTT 120  
 Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
 |||||  
 Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG 180  
 Query 7370 CACAATCCCCTACTATC 7384  
 |||||  
 Sbjct 181 CACAATCCCCTACTATC 195  
**>lcl|Amplicon 42 non-redundant amplicon of 18 matches Length=195**  
 Score = 329 bits (364), Expect = 5e-91  
 Identities = 190/195 (97%), Gaps = 0/195 (0%)  
 Strand=Plus/Plus  
 Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG 7249  
 |||||||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTCAAGATGCCTCTGCCG 60  
 Query 7250 ACAGTGGTCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAAGACGTT 7309  
 |||||||  
 Sbjct 61 ACAGTGGTCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAAGACGTT 120  
 Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
 |||||||  
 Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG 180  
 Query 7370 CACAATCCCCTACTATC 7384  
 |||||  
 Sbjct 181 CACAATCCCCTACTATC 195  
**>lcl|Amplicon 358 non-redundant amplicon of 12 matches Length=192**  
 Score = 327 bits (362), Expect = 2e-90  
 Identities = 192/195 (98%), Gaps = 3/195 (2%)  
 Strand=Plus/Plus  
 Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG 7249  
 |||||||

Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCAT-GTTGAAGATGCCTCTGCCG 59  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 7309  
 |||||||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCAT-GTTGAAGATGCCTCTGCCG 59  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 7309  
 |||||||  
 Sbjct 60 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 118  
 Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
 |||||||  
 Sbjct 119 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCT-CACTGACGTAAGGGATGACG 177  
 Query 7370 CACAATCCCACTATC 7384  
 |||||||  
 Sbjct 178 CACAATCCCACTATC 192  
 >[lcl|Amplicon 503 non-redundant amplicon of 2 matches](#) Length=196  
 Score = 327 bits (362), Expect = 2e-90  
 Identities = 191/196 (97%), Gaps = 1/196 (1%)  
 Strand=Plus/Plus  
 Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG 7249  
 |||||||  
 Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATGCCTCTGCCG 60  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 7309  
 |||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
 Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGG-ATGAC 7368  
 |||||||  
 Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 180  
 Query 7369 GCACAATCCCACTATC 7384  
 |||||||  
 Sbjct 181 GCACAATCCCACTATC 196  
 >[lcl|Amplicon 166 non-redundant amplicon of 44 matches](#)  
 Length=195  
 Score = 327 bits (362), Expect = 2e-90  
 Identities = 187/191 (98%), Gaps = 0/191 (0%)  
 Strand=Plus/Plus  
 Query 7194 CTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCGACAG 7253  
 |||||||  
 Sbjct 5 CTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTCAAGATGCCTCTGCCGACAG 64  
 Query 7254 TGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTCCAAC 7313  
 |||||||  
 Sbjct 65 TGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTCCAAC 124  
 Query 7314 CACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCACA 7373  
 |||||||  
 Sbjct 125 CACGTCTCAAAGCAAGTGGATTGATGTGATACTCCACTGACGTAAGGGATGACGCACA 184  
 Query 7374 ATCCCACTATC 7384  
 |||||||  
 Sbjct 185 ATCCCACTATC 195  
 >[lcl|Amplicon 18 non-redundant amplicon of 166 matches](#)  
 Length=195  
 Score = 327 bits (362), Expect = 2e-90  
 Identities = 187/191 (98%), Gaps = 0/191 (0%)  
 Strand=Plus/Plus  
 Score = 327 bits (362), Expect = 2e-90  
 Identities = 187/191 (98%), Gaps = 0/191 (0%)  
 Strand=Plus/Plus  
 Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG 7249  
 |||||||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATGCCTCTGCCG 60  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 7309  
 |||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
 Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
 |||||||  
 Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG 180  
 Query 7370 CACAATCCCAAC 7380  
 |||||||  
 Sbjct 181 CACAATCCCAAC 191  
 >[lcl|Amplicon 670 non-redundant amplicon of 2 matches](#) Length=195  
 Score = 325 bits (360), Expect = 6e-90

Identities = 190/195 (97%), Gaps = 1/195 (1%)

Strand=Plus/Plus

Query	7191	CTCCTA-CAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG	7249
Sbjct	1	CTCCTAGCAAATGCCATCATTGCGATAAAGGAAAGGCTATCAAGATGCCTCTGCCG	60
Query	7250	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC	7309
Sbjct	61	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC	120
Query	7310	CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	7369
Sbjct	121	CAACCACGTCTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG	180
Query	7370	CACAATCCCCTACTATC 7384	
Sbjct	181	CACAATCCCCTACTATC 195	

>[lcl|Amplicon 465 non-redundant amplicon of 4 matches](#)

Length=195

Score = 325 bits (360), Expect = 6e-90

Identities = 189/195 (97%), Gaps = 0/195 (0%)

Strand=Plus/Plus

Query	7190	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG	7249
Sbjct	1	GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTAAAGATGCCTCTGCCG	60
Query	7250	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC	7309
Sbjct	61	ACAGTGGTCTAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC	120
Query	7310	CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	7369
Sbjct	121	CAACCACGTCTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG	180
Query	7370	CACAATCCCCTACTATC 7384	
Sbjct	181	CACAATCCCCTACTATC 195	

>[lcl|Amplicon 245 non-redundant amplicon of 52 matches](#)

Sbjct 181 CACAATCCCCTACTATC 195

>[lcl|Amplicon 245 non-redundant amplicon of 52 matches](#)

Length=197

Score = 325 bits (360), Expect = 6e-90

Identities = 191/197 (97%), Gaps = 2/197 (1%)

Strand=Plus/Plus

Query	7190	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGAT--GCCTCTGC	7247
Sbjct	1	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATCTGCCTCTGC	60
Query	7248	CGACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGT	7307
Sbjct	61	CGACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGT	120
Query	7308	TCCAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGA	7367
Sbjct	121	TCCAACCACGTCTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGA	180
Query	7368	CGCACAAATCCCCTACTATC 7384	
Sbjct	181	CGCACAAATCCCCTACTATC 197	

>[lcl|Amplicon 138 non-redundant amplicon of 132 matches](#)

Length=195

Score = 325 bits (360), Expect = 6e-90

Identities = 189/195 (97%), Gaps = 0/195 (0%)

Strand=Plus/Plus

Query	7190	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG	7249
Sbjct	1	GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATGCCTCTGCCG	60
Query	7250	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC	7309
Sbjct	61	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC	120
Query	7310	CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	7369
Sbjct	121	CAACCACGTCTCAAAGCAAGTGGATTGATGTGATACTCCACTGACGTAAGGGATGACG	180
Query	7370	CACAATCCCCTACTATC 7384	
Sbjct	181	CACAATCCCCTACTATC 195	

## &gt;lcl|Amplicon 125 non-redundant amplicon of 742 matches

Length=195

Score = 325 bits (360), Expect = 6e-90  
Identities = 189/195 (97%), Gaps = 0/195 (0%)

Strand=Plus/Plus

Query	7190	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG	7249
Sbjct	1	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCATCGTCAAGATCTCTGCCG	60
Query	7250	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC	7309
Sbjct	61	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC	120
Query	7310	CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	7369
Sbjct	121	CAACCACGTCTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG	180
Query	7370	CACAATCCCCTACTATC 7384	
Sbjct	121	CAACCACGTCTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG	180
Query	7370	CACAATCCCCTACTATC 7384	
Sbjct	181	CACAATCCCCTACTATC 195	

## &gt;lcl|Amplicon 714 non-redundant amplicon of 2 matches Length=195

Score = 324 bits (358), Expect = 2e-89  
Identities = 188/194 (97%), Gaps = 0/194 (0%)

Strand=Plus/Plus

Query	7190	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG	7249
Sbjct	1	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCATCGTGAAGATAAGCCTGCCG	60
Query	7250	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC	7309
Sbjct	61	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC	120
Query	7310	CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	7369
Sbjct	121	CAACCACGTCTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG	180
Query	7370	CACAATCCCCTACTATC 7383	
Sbjct	181	CACAATCCCCTACTATC 194	

## &gt;lcl|Amplicon 630 non-redundant amplicon of 8 matches

Length=195

Score = 324 bits (358), Expect = 2e-89  
Identities = 188/194 (97%), Gaps = 0/194 (0%)

Strand=Plus/Plus

Query	7190	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG	7249
Sbjct	1	GCTTCTACAAATGCCATCATTGCGATAAAGGAAAGGCATCGTCAAGATGCCTCTACCG	60
Query	7250	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC	7309
Sbjct	61	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAACATCGTGGAAAAGAACGTTC	120
Query	7310	CAACCACGTCTCAAAGCAAGTGGATTGAGATATCTCCACTGACGTAAGGGATGACG	7369
Sbjct	121	CAACCACGTCTCAAAGCAAGTGGATTGAGATATCTCCACTGACGTAAGGGATGACG	180
Query	7370	CACAATCCCCTACTATC 7383	
Sbjct	181	CACAATCCCCTACTATC 194	

## &gt;lcl|Amplicon 598 non-redundant amplicon of 2 matches Length=195

Score = 324 bits (358), Expect = 2e-89  
Identities = 188/194 (97%), Gaps = 0/194 (0%)

Strand=Plus/Plus

Query	7190	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG	7249
Sbjct	1	GCTTCTACAAATGCCATCATTGCGATAAAGGAAAGGCATCGTCAAGATGCCTCTACCG	60
Query	7250	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC	7309
Sbjct	61	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAACATCGTGGAAAAGAACGTTC	120
Query	7250	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC	7309
Sbjct	61	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAACATCGTGGAAAAGAACGTTC	120
Query	7310	CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	7369

Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATTCCACTGACGTAAGGGATGACG 180  
Query 7370 CACAATCCCACTAT 7383  
|||||||

Sbjct 181 CACAATCCCACTAT 194

>lcl|Amplicon 268 non-redundant amplicon of 190 matches

Length=196

Score = 324 bits (358), Expect = 2e-89  
Identities = 190/196 (97%), Gaps = 1/196 (1%)

Strand=Plus/Plus

Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGA-TGCCTCTGCC 7248  
|||||

Sbjct 1 GCTTCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGAATGCCTCTACC 60  
Query 7249 GACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTT 7308  
|||||

Sbjct 61 GACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAACATCGTGGAAAAAGAACGTT 120  
Query 7309 CCAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 7368  
|||||

Sbjct 121 CCAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 180  
Query 7369 GCACAATCCCACTATC 7384  
|||||

Sbjct 181 GCACAATCCCACTATC 196  
>lcl|Amplicon 468 non-redundant amplicon of 2 matches

Length=195

Score = 322 bits (356), Expect = 7e-89  
Identities = 187/193 (97%), Gaps = 0/193 (0%)

Strand=Plus/Plus

Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
|||

Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATGCCTCTACCG 60  
Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTT 7309  
|||||

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTT 120  
Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
|||||

Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG 180  
Query 7370 CACAATCCCACTA 7382  
|||||

Sbjct 181 CACAATCCCACTA 193  
>lcl|Amplicon 328 non-redundant amplicon of 18 matches

Length=194

Score = 322 bits (356), Expect = 7e-89  
Identities = 189/195 (97%), Gaps = 1/195 (1%)

Strand=Plus/Plus

Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
|||

Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
|||

Sbjct 1 GCACCTACAAATGCCATCATTGCGATAA-GGAAAGGCTATCGTTCAAGATGCCTCTGCCG 59  
Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTT 7309  
|||||

Sbjct 60 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTT 119  
Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
|||||

Sbjct 120 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 179  
Query 7370 CACAATCCCACTATC 7384  
|||||

Sbjct 180 CACAATCCCACTATC 194  
>lcl|Amplicon 740 non-redundant amplicon of 4 matches

Length=194

Score = 322 bits (356), Expect = 7e-89  
Identities = 189/195 (97%), Gaps = 1/195 (1%)

Strand=Plus/Plus

Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
|||

Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGCCTCTCCCG 60  
Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTT 7309  
|||||

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAACATCGTGGAAAAAGAACGTT 120

Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
| |||||||  
Sbjct 121 C-ACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 179  
Query 7370 CACAATCCC ACTATC 7384  
| |||||  
Sbjct 180 CACAATCCCTCTATC 194  
>lcl|Amplicon 372 non-redundant amplicon of 6 matches  
Length=195  
Score = 320 bits (354), Expect = 3e-88  
Identities = 188/195 (96%), Gaps = 0/195 (0%)  
Strand=Plus/Plus  
Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
| |||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTTC 7309  
| |||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTTC 120  
Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
| |||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG 180  
Query 7370 CACAATCCC ACTATC 7384  
| |||||  
Sbjct 181 CACAATCCC ACTATC 195  
>lcl|Amplicon 760 non-redundant amplicon of 2 matches Length=196  
Score = 318 bits (352), Expect = 9e-88  
Length=196  
Score = 318 bits (352), Expect = 9e-88  
Identities = 189/196 (96%), Gaps = 1/196 (1%)  
Strand=Plus/Plus  
Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
| |||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTTC 7309  
| |||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTTC 120  
Query 7310 CAACCACGTCTTC-AAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 7368  
| |||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGAC 180  
Query 7369 GCACAATCCC ACTATC 7384  
| |||||  
Sbjct 181 GCACAATCCC ACTATC 196  
>lcl|Amplicon 751 non-redundant amplicon of 2 matches Length=195  
Score = 318 bits (352), Expect = 9e-88  
Identities = 187/194 (96%), Gaps = 0/194 (0%)  
Strand=Plus/Plus  
Query 7191 CTCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCGA 7250  
| |||  
Sbjct 2 CTCTTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCGA 61  
Query 7251 CAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTCC 7310  
| |||||||  
Sbjct 62 CAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTCC 121  
Query 7311 AACACACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7370  
| |||||||  
Sbjct 122 AACACACGTCTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG 181  
Query 7371 ACAATCCC ACTATC 7384  
| |||||  
Sbjct 182 ACAATCCC ACTATC 195  
>lcl|Amplicon 162 non-redundant amplicon of 20 matches  
Length=196  
Score = 318 bits (352), Expect = 9e-88  
Identities = 189/196 (96%), Gaps = 1/196 (1%)  
Strand=Plus/Plus  
Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
| |||  
Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTTC 7309  
| |||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTTC 120

Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGG-ATGAC 7368  
 |||||||  
 Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATACTTCCACTGACGTAAGGGAAATGAC 180  
 Query 7369 GCACAATCCCACTATC 7384  
 |||||||  
 Sbjct 181 GCACAATCCCACTATC 196  
 Query 7369 GCACAATCCCACTATC 7384  
 |||||||  
 Sbjct 181 GCACAATCCCACTATC 196  
>lcl|Amplicon 317 non-redundant amplicon of 10 matches  
 Length=196  
 Score = 318 bits (352), Expect = 9e-88  
 Identities = 189/196 (96%), Gaps = 1/196 (1%)  
 Strand=Plus/Plus  
 Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGA-TGCCTCTGCC 7248  
 |||||  
 Sbjct 1 GCTTCTACAAATGCCATCATTGCGATAAAGGAAAGGCATCGTTCAAGAATGCCCTTAC 60  
 Query 7249 GACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTT 7308  
 |||||||  
 Sbjct 61 GACAGTGGTCCCAAAGATGTACCCCCACCCACGAGGAACATCGTGGAAAAAGAACGTT 120  
 Query 7309 CCAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 7368  
 |||||||  
 Sbjct 121 CCAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 180  
 Query 7369 GCACAATCCCACTATC 7384  
 |||||||  
 Sbjct 181 GCACAATCCCACTATC 196  
>lcl|Amplicon 459 non-redundant amplicon of 2 matches  
 Length=195  
 Score = 316 bits (350), Expect = 3e-87  
 Identities = 187/195 (96%), Gaps = 0/195 (0%)  
 Strand=Plus/Plus  
 Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCCTGCCG 7249  
 |||||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCATCGTTCAAATGCCCTGCCG 60  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTT 7309  
 |||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGATCCCCACCCACGAGGAGCATCGTGGAAAAAGGAGACGTT 120  
 Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 7369  
 |||||||  
 Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATCTCACATCTCCACTGACGTAAGGGATGAC 180  
 Query 7370 CACAATCCCACTATC 7384  
 |||||||  
 Sbjct 181 CACAATCCCACTATC 195  
>lcl|Amplicon 371 non-redundant amplicon of 6 matches Length=196  
 Score = 316 bits (350), Expect = 3e-87  
 Identities = 190/196 (97%), Gaps = 3/196 (2%)  
 Strand=Plus/Plus  
 Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCCTGCCG 7249  
 |||||  
 Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCATCGTTCAAGATGCCCTGCCG 60  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTT 7309  
 |||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTT 120  
 Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCC-ACTGACGTAAGGGATGAC 7368  
 |||||||  
 Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCTACTGACGTAAGGGATGAC 180  
 Query 7310 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCC-ACTGACGTAAGGGATGAC 7368  
 |||||||  
 Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCTACTGACGTAAGGGATGAC 180  
 Query 7369 GCAC-AATCCC-ACTA 7382  
 |||||  
 Sbjct 181 GCACTAATCCCTACTA 196  
>lcl|Amplicon 766 non-redundant amplicon of 4 matches Length=195  
 Score = 315 bits (348), Expect = 1e-86  
 Identities = 185/192 (96%), Gaps = 0/192 (0%)  
 Strand=Plus/Plus  
 Query 7193 CCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCCTGCCGACA 7252  
 |||||

Sbjct	4	CCCACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATCTCTGCCGACA	63
Query	7253	GTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTCAA	7312
Sbjct	64	GTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTCAA	123
Query	7313	CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC	7372
Sbjct	124	CCACGTCTTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACGCAC	183
Query	7373	AATCCCACTATC 7384	
Sbjct	184	AATCCCACTATC 195	

## &gt;lcl|Amplicon 289 non-redundant amplicon of 6 matches

Length=195

Score = 313 bits (346), Expect = 4e-86  
 Identities = 184/191 (96%), Gaps = 0/191 (0%)  
 Strand=Plus/Plus

Query	7194	CTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCCTGCCGACAG	7253
Sbjct	5	CTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATCTCTGCCGACAG	64
Query	7254	TGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTCAAAC	7313
Sbjct	65	TGGTCCCAAAGATGGACCCCCACCCACTAGGAGCATCGTGGAAAAGAACGTTCAAAC	124
Query	7314	CACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCACA	7373
Sbjct	125	CACGTCTTCAAAGCAAGTGGATTGATGTGATACTCCACTGACGTAAGGGATGACGCACA	184
Query	7374	ATCCCACTATC 7384	
Sbjct	185	ATCCCACTATC 195	

## &gt;lcl|Amplicon 780 non-redundant amplicon of 2 matches Length=198

Score = 306 bits (338), Expect = 6e-84  
 Identities = 188/198 (95%), Gaps = 3/198 (2%)  
 Strand=Plus/Plus

Query	7190	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCCTGCCG	7249
Sbjct	1	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATCTCTGCCG	60
Query	7250	ACAGTGGTCCCAAAGATGGACCCCC--CCCACGA-GGAGCATCGTGGAAAAGAACG	7306
Sbjct	1	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATCTCTGCCG	60
Query	7250	ACAGTGGTCCCAAAGATGGACCCCC--CCCACGA-GGAGCATCGTGGAAAAGAACG	7306
Sbjct	61	ACAGTGGTCCCAAAGATGGACCCCCCACGAAGGAGCATCGTGGAAAAGAACG	120
Query	7307	TTCCAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATG	7366
Sbjct	121	TTCCAACCACGTCTTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATG	180
Query	7367	ACGCACAATCCCACTATC 7384	
Sbjct	181	ACGCACAATCCCACTATC 198	

## &gt;lcl|Amplicon 758 non-redundant amplicon of 2 matches Length=196

Score = 306 bits (338), Expect = 6e-84  
 Identities = 186/196 (95%), Gaps = 1/196 (1%)  
 Strand=Plus/Plus

Query	7190	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCCTGCCG	7249
Sbjct	1	GCTCTTACAAATGCCATCATGGCGATAAAGGAAAGGCTATCATTCAAGATCTCTGCCG	60
Query	7250	ACAGTGGTCCCAAAGATGGACCCC-CACCCACGAGGAGCATCGTGGAAAAGAACGTT	7308
Sbjct	61	ACAGTGGTCCCAAAGATGGACCCCCCACCCACGAGGAGCATCGGGAAAAGAACGTT	120
Query	7309	CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC	7368
Sbjct	121	CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGAC	180
Query	7369	GCACAATCCCACTATC 7384	
Sbjct	181	GCACAATCCCACTATC 196	

## &gt;lcl|Amplicon 375 non-redundant amplicon of 6 matches

Length=198

Score = 289 bits (320), Expect = 4e-79  
 Identities = 183/193 (95%), Gaps = 5/193 (3%)  
 Strand=Plus/Plus

Query	7190	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCCTGCCG	7249
-------	------	---	------

```

Sbjct 1      ||||||| GTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60
Query 7250   ACAGTGGTCCC-AAAGATGGACCCCCACCCACGAGGAGCATCGTGG-AAAAAGAACGT 7307
||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct 61     ACAGTGGTCCCAAAGATGGANCCCACCCACGAGGAGCATCGTGGAAAAAGAACGT 120
Query 7308   TCCAA-CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACT-GACGTAAGGGAT 7365
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct 121    TCCAACCCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTNCCCTGGNCGT-ANGGAT 179
Query 7366   GACGCACAATCCC 7378
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct 180    GACGCACAATCCC 192
>lcl|Amplicon 576 non-redundant amplicon of 2 matches Length=212
Score = 289 bits (320), Expect = 4e-79
Identities = 189/212 (89%), Gaps = 17/212 (8%)
Strand=Plus/Plus
Identities = 189/212 (89%), Gaps = 17/212 (8%)
Strand=Plus/Plus
Query 7190   GTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249
||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct 1      GTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATCTCTGCCG 60
Query 7250   ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 7309
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct 61     ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 120
Query 7310   CAACCACGTCTTC-----AAAGCAAGTGGATTGATGTGATATCTCCAC 7352
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct 121    CAACCACGTCTTCAAACCGGGTGGCAGGTAAAGCAAGTGGATTGATGTGACATCTCCAC 180
Query 7353   TGACGTAAGGGATGACGCACAATCCCACTATC 7384
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct 181    TGACGTAAGGGATGACGCACAATCCCACTATC 212
>lcl|Amplicon 489 non-redundant amplicon of 4 matches Length=235
Score = 286 bits (316), Expect = 5e-78
Identities = 158/158 (100%), Gaps = 0/158 (0%)
Strand=Plus/Plus
Query 7190   GTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249
||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct 1      GTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60
Query 7250   ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 7309
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct 61     ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 120
Query 7310   CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATC 7347
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct 121    CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATC 158
Score = 73.4 bits (80), Expect = 6e-14
Identities = 40/40 (100%), Gaps = 0/40 (0%)
Strand=Plus/Plus
Query 7345   ATCTCCACTGACGTAAGGGATGACGCACAATCCCACTATC 7384
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct 196    ATCTCCACTGACGTAAGGGATGACGCACAATCCCACTATC 235
>lcl|Amplicon 131 non-redundant amplicon of 36 matches
Length=245
Score = 260 bits (288), Expect = 2e-70
Identities = 183/209 (88%), Gaps = 0/209 (0%)
Strand=Plus/Plus
Query 7190   GTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249
||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct 1      GTCCTACAAATGCCATCATTGTGATAAAGGAAAGGCTATCATTGAAGATGCCTCTACCT 60
Query 7250   ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 7309
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct 61     ATAGTGGTCCCAAAGATGGACCCCCACCCATGAGGAGCATGGTAGAAAAGAACGTTC 120
Query 7310   CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct 121    CAACCATGTCTTCAAAGCAAGTGGATTGATGTGGATCCTCCAATGATGTCAAGGGATGATG 180
Query 7370   CACAATCCCACTATCCTCGCAAGACCCT 7398
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Query 7370   CACAATCCCACTATCCTCGCAAGACCCT 7398
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct 181    TCAAATCCCACTATCCTTGCCAAGATCCT 209
>lcl|Amplicon 22 non-redundant amplicon of 18 matches Length=195

```

Score = 257 bits (284), Expect = 3e-69  
 Identities = 174/195 (89%), Gaps = 0/195 (0%)  
 Strand=Plus/Plus

Query	7190	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG	7249
Sbjct	1	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTACCT	60
Query	7250	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC	7309
Sbjct	61	ATAGTGGTCCCAAAGATGGACCCCCACCCATGAGGAGCATGGTAGAAAAAGAACGTTC	120
Query	7310	CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	7369
Sbjct	121	CAACCATGTCTCAAAGCAAGTGGATTGATGTGGATCCTCCAATGACGTAAGGGATGACG	180
Query	7370	CACAATCCCCTACTATC 7384	
Sbjct	181	TCAAATCCCCTACTATC 195	

>[lcl|Amplicon 785 non-redundant amplicon of 2 matches](#)

Length=190

Score = 248 bits (274), Expect = 1e-66  
 Identities = 176/195 (90%), Gaps = 5/195 (3%)  
 Strand=Plus/Plus

Query	7190	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG	7249
Sbjct	1	GCTTCTACAAATGCCATCATTGCGATAAAAGAA-GGCTATCATTCAAGATCTCTGCCG	59
Query	7250	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC	7309
Sbjct	60	ACAGTGGTCCCAAAGAATGGACCCCCACCCACGAAGAGCATCGTGGAAAAGAACGTTC	119
Query	7310	CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	7369
Sbjct	120	C-ACCACGTCTTC-AAGCAAGTGGATGATGTGACATCT-CACTGACGTA-GGATGACG	175
Query	7370	CACAATCCCCTACTATC 7384	
Sbjct	176	CACCACGTCTACTATC 190	

>[lcl|Amplicon 621 non-redundant amplicon of 10 matches](#)

Length=170

Score = 248 bits (274), Expect = 1e-66  
 Identities = 170/195 (87%), Gaps = 25/195 (13%)  
 Strand=Plus/Plus

Query	7190	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG	7249
Sbjct	1	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCA-CGTTGAAGATGCCTCTGCCG	59
Query	7250	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC	7309
Sbjct	60	ACAGTGGTCCCA--GATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC	117
Query	7310	CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	7369
Sbjct	60	ACAGTGGTCCCA--GATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC	117
Query	7310	CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	7369
Sbjct	118	CAACCACGTCTCAAAG-----CCACTGACGTAAGGGATGACG	155
Query	7370	CACAATCCCCTACTATC 7384	
Sbjct	156	CACAATCCCCTACTATC 170	

>[lcl|Amplicon 128 non-redundant amplicon of 54 matches](#)

Length=195

Score = 248 bits (274), Expect = 1e-66  
 Identities = 172/195 (88%), Gaps = 0/195 (0%)  
 Strand=Plus/Plus

Query	7190	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG	7249
Sbjct	1	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTACCT	60
Query	7250	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC	7309
Sbjct	61	ATAGTGGTCCCAAAGATGGACCCCCACCCATGAGGAGCATGGTAGAAAAAGAACGTTC	120
Query	7310	CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	7369
Sbjct	121	CAACCATGTCTCAAAGCAAGTGGATTGATGTGGATCCTCCAATGACGTAAGGGATGATG	180
Query	7370	CACAATCCCCTACTATC 7384	

Sbjct 181 TCAAATCCCCTACTAC 195  
>[lcl|Amplicon 354 non-redundant amplicon of 5 matches](#)  
Length=170  
Score = 241 bits (266), Expect = 2e-64  
Identities = 133/133 (100%), Gaps = 0/133 (0%)  
Strand=Plus/Plus  
Query 7137 CCATTGCCAGCTATCTGCACTTTATTGTGAAGATAGTGGAAAAGGAAGGTGGCTCCTA 7196  
|||  
Sbjct 38 CCATTGCCAGCTATCTGCACTTTATTGTGAAGATAGTGGAAAAGGAAGGTGGCTCCTA 97  
Query 7197 CAAATGCCATCATTCGATAAAGGAAAGGCCATCGTGAAGATGCCCTGCCGACAGTGG 7256  
|||  
Sbjct 98 CAAATGCCATCATTCGATAAAGGAAAGGCCATCGTGAAGATGCCCTGCCGACAGTGG 157  
Query 7257 TCCCAAAGATGGA 7269  
|||  
Sbjct 158 TCCCAAAGATGGA 170  
>[lcl|Amplicon 36 non-redundant amplicon of 2906 matches](#)  
Length=123  
Score = 223 bits (246), Expect = 5e-59  
Identities = 123/123 (100%), Gaps = 0/123 (0%)  
Strand=Plus/Plus  
Query 7313 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 7372  
|||  
Sbjct 1 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 60  
Query 7373 AATCCCCTACTCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGA 7432  
|||  
Sbjct 61 AATCCCCTACTCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGA 120  
Query 7373 AATCCCCTACTCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGA 7432  
|||  
Sbjct 61 AATCCCCTACTCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGA 120  
Query 7433 GGA 7435  
|||  
Sbjct 121 GGA 123  
>[lcl|Amplicon 458 non-redundant amplicon of 11 matches](#)  
Length=123  
Score = 221 bits (244), Expect = 2e-58  
Identities = 122/122 (100%), Gaps = 0/122 (0%)  
Strand=Plus/Plus  
Query 7314 CACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCACA 7373  
|||  
Sbjct 2 CACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCACA 61  
Query 7374 ATCCCCTACTCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGAG 7433  
|||  
Sbjct 62 ATCCCCTACTCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGAG 121  
Query 7434 GA 7435  
|||  
Sbjct 122 GA 123  
>[lcl|Amplicon 261 non-redundant amplicon of 16 matches](#)  
Length=123  
Score = 221 bits (244), Expect = 2e-58  
Identities = 122/122 (100%), Gaps = 0/122 (0%)  
Strand=Plus/Plus  
Query 7313 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 7372  
|||  
Sbjct 1 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 60  
Query 7373 AATCCCCTACTCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGA 7432  
|||  
Sbjct 61 AATCCCCTACTCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGA 120  
Query 7433 GG 7434  
|||  
Sbjct 121 GG 122  
>[lcl|Amplicon 119 non-redundant amplicon of 56 matches](#)  
Length=122  
Score = 221 bits (244), Expect = 2e-58  
Identities = 122/122 (100%), Gaps = 0/122 (0%)  
Strand=Plus/Plus  
Query 7313 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 7372  
|||  
Sbjct 1 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 60  
Query 7373 AATCCCCTACTCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGA 7432

Sbjct 61 AATCCCACTATCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGA 120  
Query 7433 GG 7434  
||  
Sbjct 121 GG 122  
>lcl|Amplicon 249 non-redundant amplicon of 392 matches  
Length=123  
>lcl|Amplicon 249 non-redundant amplicon of 392 matches  
Length=123  
Score = 221 bits (244), Expect = 2e-58  
Identities = 122/122 (100%), Gaps = 0/122 (0%)  
Strand=Plus/Plus  
Query 7313 CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 7372  
|||  
Sbjct 1 CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 60  
Query 7373 AATCCCACTATCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGA 7432  
|||  
Sbjct 61 AATCCCACTATCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGA 120  
Query 7433 GG 7434  
||  
Sbjct 121 GG 122  
>lcl|Amplicon 178 non-redundant amplicon of 69 matches  
Length=123  
Score = 221 bits (244), Expect = 2e-58  
Identities = 122/122 (100%), Gaps = 0/122 (0%)  
Strand=Plus/Plus  
Query 7313 CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 7372  
|||  
Sbjct 1 CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 60  
Query 7373 AATCCCACTATCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGA 7432  
|||  
Sbjct 61 AATCCCACTATCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGA 120  
Query 7433 GG 7434  
||  
Sbjct 121 GG 122  
>lcl|Amplicon 712 non-redundant amplicon of 1 matches  
Length=123  
Score = 219 bits (242), Expect = 6e-58  
Identities = 121/121 (100%), Gaps = 0/121 (0%)  
Strand=Plus/Plus  
Query 7315 ACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCACAA 7374  
|||  
Sbjct 3 ACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCACAA 62  
Query 7375 TCCCACATCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGAGG 7434  
|||  
Sbjct 63 TCCCACATCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGAGG 122  
Query 7435 A 7435  
|  
Sbjct 123 A 123  
>lcl|Amplicon 484 non-redundant amplicon of 1 matches Length=123  
Score = 219 bits (242), Expect = 6e-58  
Identities = 121/121 (100%), Gaps = 0/121 (0%)  
Strand=Plus/Plus  
Query 7313 CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 7372  
Strand=Plus/Plus  
Query 7313 CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 7372  
|||  
Sbjct 1 CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 60  
Query 7373 AATCCCACTATCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGA 7432  
|||  
Sbjct 61 AATCCCACTATCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGA 120  
Query 7433 G 7433  
|  
Sbjct 121 G 121  
>lcl|Amplicon 226 non-redundant amplicon of 5 matches Length=123  
Score = 219 bits (242), Expect = 6e-58  
Identities = 121/121 (100%), Gaps = 0/121 (0%)  
Strand=Plus/Plus  
Query 7313 CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 7372

Sbjct 1 CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 60  
Query 7373 AATCCCACATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTCATTTGGAGA 7432  
  
Sbjct 61 AATCCCACATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTCATTTGGAGA 120  
Query 7433 G 7433  
|  
Sbjct 121 G 121

>[lcl|Amplicon 48 non-redundant amplicon of 966 matches](#)

Length=123  
Score = 219 bits (242), Expect = 6e-58  
Identities = 121/121 (100%), Gaps = 0/121 (0%)  
Strand=Plus/Plus

Query 7313 CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 7372  
  
Sbjct 1 CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 60  
Query 7373 AATCCCACATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTCATTTGGAGA 7432  
  
Sbjct 61 AATCCCACATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTCATTTGGAGA 120  
Query 7433 G 7433  
|  
Sbjct 121 G 121

>[lcl|Amplicon 442 non-redundant amplicon of 2 matches](#)

Length=123  
Score = 217 bits (240), Expect = 2e-57  
Identities = 122/123 (99%), Gaps = 0/123 (0%)  
Strand=Plus/Plus

Query 7313 CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 7372  
  
Sbjct 1 CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 60  
Query 7373 AATCCCACATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTCATTTGGAGA 7432  
  
Sbjct 61 AATCCCACATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTGATTTCATTTGGAGA 120  
Query 7373 AATCCCACATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTCATTTGGAGA 7432  
  
Sbjct 61 AATCCCACATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTGATTTCATTTGGAGA 120  
Query 7433 GGA 7435  
|||  
Sbjct 121 GGA 123

>[lcl|Amplicon 724 non-redundant amplicon of 1 matches](#) Length=123  
Score = 217 bits (240), Expect = 2e-57  
Identities = 122/123 (99%), Gaps = 0/123 (0%)  
Strand=Plus/Plus

Query 7313 CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 7372  
  
Sbjct 1 CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 60  
Query 7373 AATCCCACATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTCATTTGGAGA 7432  
  
Sbjct 61 AATCCCACATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTCATTTGGAGA 120  
Query 7433 GGA 7435  
|||  
Sbjct 121 GGA 123

>[lcl|Amplicon 681 non-redundant amplicon of 2 matches](#)

Length=123  
Score = 217 bits (240), Expect = 2e-57  
Identities = 122/123 (99%), Gaps = 0/123 (0%)  
Strand=Plus/Plus

Query 7313 CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 7372  
  
Sbjct 1 CCACGTCTTAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 60  
Query 7373 AATCCCACATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTCATTTGGAGA 7432  
  
Sbjct 61 AATCCCACATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTCATTTGGAGA 120  
Query 7433 GGA 7435  
|||  
Sbjct 121 GGA 123

>[lcl|Amplicon 678 non-redundant amplicon of 1 matches](#) Length=123  
Score = 217 bits (240), Expect = 2e-57

Identities = 122/123 (99%), Gaps = 0/123 (0%)

Strand=Plus/Plus

Query 7313 CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 7372

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

Sbjct 1 CCACGTCTTCAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 60

Query 7373 AATCCCACATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGA 7432

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

Sbjct 61 AATCCCACATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGA 120

Query 7433 GGA 7435

|||

Sbjct 121 GGA 123

>[lcl|Amplicon\\_594 non-redundant amplicon of 1 matches](#) Length=123

>[lcl|Amplicon\\_594 non-redundant amplicon of 1 matches](#)

Length=123

Score = 217 bits (240), Expect = 2e-57

Identities = 122/123 (99%), Gaps = 0/123 (0%)

Strand=Plus/Plus

Query 7313 CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 7372

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

Sbjct 1 CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCTC 60

Query 7373 AATCCCACATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGA 7432

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

Sbjct 61 AATCCCACATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGA 120

Query 7433 GGA 7435

|||

Sbjct 121 GGA 123

>[lcl|Amplicon\\_79 non-redundant amplicon of 3 matches](#) Length=123

Score = 217 bits (240), Expect = 2e-57

Identities = 122/123 (99%), Gaps = 0/123 (0%)

Strand=Plus/Plus

Query 7313 CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 7372

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

Sbjct 1 CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCTC 60

Query 7373 AATCCCACATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGA 7432

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

Sbjct 61 AATCCCACATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGA 120

Query 7433 GGA 7435

|||

Sbjct 121 GGA 123

Lambda K H

0.634 0.408 0.912

Gapped

Lambda K H

0.625 0.410 0.780

Effective search space used: 754206264

**Query= pActin1\_\_(pRice\_Actin)\_Oryza\_sativa\_- S44221.1**

Length=1266

\*\*\*\*\* No hits found \*\*\*\*\*

Lambda K H

0.634 0.408 0.912

Gapped

Lambda K H

0.625 0.410 0.780

Gapped

Lambda K H

0.625 0.410 0.780

Effective search space used: 120626506

**Query= P-E35s\_Cloning\_vector\_pRGK336\_- AY739898.1**

Length=613

Sequences producing significant alignments:

[lcl|Amplicon\\_47 non-redundant amplicon of 6422 matches](#)

[lcl|Amplicon\\_194 non-redundant amplicon of 40 matches](#)

[lcl|Amplicon\\_152 non-redundant amplicon of 66 matches](#)

[lcl|Amplicon\\_723 non-redundant amplicon of 2 matches](#)

[lcl|Amplicon\\_644 non-redundant amplicon of 4 matches](#)

[lcl|Amplicon\\_593 non-redundant amplicon of 2 matches](#)

Score (Bits)	E Value
<a href="#">352</a>	3e-99
<a href="#">349</a>	4e-98
<a href="#">349</a>	4e-98
<a href="#">347</a>	1e-97
<a href="#">347</a>	1e-97
<a href="#">347</a>	1e-97

lcl Amplicon_509	non-redundant amplicon of 4 matches	<a href="#">347</a>	1e-97
lcl Amplicon_97	non-redundant amplicon of 12 matches	<a href="#">347</a>	1e-97
lcl Amplicon_78	non-redundant amplicon of 6 matches	<a href="#">347</a>	1e-97
lcl Amplicon_57	non-redundant amplicon of 14 matches	<a href="#">347</a>	1e-97
lcl Amplicon_411	non-redundant amplicon of 10 matches	<a href="#">347</a>	1e-97
lcl Amplicon_346	non-redundant amplicon of 12 matches	<a href="#">347</a>	1e-97
lcl Amplicon_339	non-redundant amplicon of 6 matches	<a href="#">347</a>	1e-97
lcl Amplicon_305	non-redundant amplicon of 6 matches	<a href="#">347</a>	1e-97
lcl Amplicon_739	non-redundant amplicon of 4 matches	<a href="#">347</a>	1e-97
lcl Amplicon_292	non-redundant amplicon of 6 matches	<a href="#">345</a>	5e-97
lcl Amplicon_301	non-redundant amplicon of 24 matches	<a href="#">345</a>	5e-97
lcl Amplicon_296	non-redundant amplicon of 4 matches	<a href="#">343</a>	2e-96
lcl Amplicon_673	non-redundant amplicon of 4 matches	<a href="#">343</a>	2e-96
lcl Amplicon_500	non-redundant amplicon of 10 matches	<a href="#">343</a>	2e-96
lcl Amplicon_68	non-redundant amplicon of 12 matches	<a href="#">343</a>	2e-96
lcl Amplicon_201	non-redundant amplicon of 182 matches	<a href="#">343</a>	2e-96
lcl Amplicon_735	non-redundant amplicon of 4 matches	<a href="#">343</a>	2e-96
lcl Amplicon_674	non-redundant amplicon of 6 matches	<a href="#">338</a>	7e-95
lcl Amplicon_671	non-redundant amplicon of 2 matches	<a href="#">338</a>	7e-95
lcl Amplicon_383	non-redundant amplicon of 18 matches	<a href="#">338</a>	7e-95
lcl Amplicon_218	non-redundant amplicon of 8 matches	<a href="#">338</a>	7e-95
lcl Amplicon_33	non-redundant amplicon of 2740 matches	<a href="#">338</a>	7e-95
lcl Amplicon_93	non-redundant amplicon of 62 matches	<a href="#">336</a>	3e-94
lcl Amplicon_789	non-redundant amplicon of 76 matches	<a href="#">334</a>	9e-94
lcl Amplicon_577	non-redundant amplicon of 2 matches	<a href="#">334</a>	9e-94
lcl Amplicon_501	non-redundant amplicon of 2 matches	<a href="#">334</a>	9e-94
lcl Amplicon_273	non-redundant amplicon of 6 matches	<a href="#">334</a>	9e-94
lcl Amplicon_90	non-redundant amplicon of 6 matches	<a href="#">334</a>	9e-94
lcl Amplicon_71	non-redundant amplicon of 8 matches	<a href="#">334</a>	9e-94
lcl Amplicon_67	non-redundant amplicon of 48 matches	<a href="#">334</a>	9e-94
lcl Amplicon_428	non-redundant amplicon of 8 matches	<a href="#">334</a>	9e-94
lcl Amplicon_200	non-redundant amplicon of 112 matches	<a href="#">334</a>	9e-94
lcl Amplicon_327	non-redundant amplicon of 12 matches	<a href="#">334</a>	9e-94
lcl Amplicon_50	non-redundant amplicon of 308 matches	<a href="#">334</a>	9e-94
lcl Amplicon_12	non-redundant amplicon of 4816 matches	<a href="#">334</a>	9e-94
lcl Amplicon_279	non-redundant amplicon of 28 matches	<a href="#">333</a>	3e-93
lcl Amplicon_353	non-redundant amplicon of 6 matches	<a href="#">333</a>	3e-93
lcl Amplicon_564	non-redundant amplicon of 4 matches	<a href="#">331</a>	1e-92
lcl Amplicon_174	non-redundant amplicon of 78 matches	<a href="#">331</a>	1e-92
lcl Amplicon_615	non-redundant amplicon of 4 matches	<a href="#">329</a>	4e-92
lcl Amplicon_266	non-redundant amplicon of 178 matches	<a href="#">329</a>	4e-92
lcl Amplicon_42	non-redundant amplicon of 18 matches	<a href="#">329</a>	4e-92
lcl Amplicon_358	non-redundant amplicon of 12 matches	<a href="#">327</a>	1e-91
lcl Amplicon_503	non-redundant amplicon of 2 matches	<a href="#">327</a>	1e-91
lcl Amplicon_166	non-redundant amplicon of 44 matches	<a href="#">327</a>	1e-91
lcl Amplicon_18	non-redundant amplicon of 166 matches	<a href="#">327</a>	1e-91
lcl Amplicon_670	non-redundant amplicon of 2 matches	<a href="#">325</a>	5e-91
lcl Amplicon_465	non-redundant amplicon of 4 matches	<a href="#">325</a>	5e-91
lcl Amplicon_245	non-redundant amplicon of 52 matches	<a href="#">325</a>	5e-91
lcl Amplicon_138	non-redundant amplicon of 132 matches	<a href="#">325</a>	5e-91
lcl Amplicon_670	non-redundant amplicon of 2 matches	<a href="#">325</a>	5e-91
lcl Amplicon_465	non-redundant amplicon of 4 matches	<a href="#">325</a>	5e-91
lcl Amplicon_245	non-redundant amplicon of 52 matches	<a href="#">325</a>	5e-91
lcl Amplicon_138	non-redundant amplicon of 132 matches	<a href="#">325</a>	5e-91
lcl Amplicon_125	non-redundant amplicon of 742 matches	<a href="#">325</a>	5e-91
lcl Amplicon_714	non-redundant amplicon of 2 matches	<a href="#">324</a>	2e-90
lcl Amplicon_630	non-redundant amplicon of 8 matches	<a href="#">324</a>	2e-90
lcl Amplicon_598	non-redundant amplicon of 2 matches	<a href="#">324</a>	2e-90
lcl Amplicon_268	non-redundant amplicon of 190 matches	<a href="#">324</a>	2e-90
lcl Amplicon_468	non-redundant amplicon of 2 matches	<a href="#">322</a>	6e-90
lcl Amplicon_328	non-redundant amplicon of 18 matches	<a href="#">322</a>	6e-90
lcl Amplicon_740	non-redundant amplicon of 4 matches	<a href="#">322</a>	6e-90
lcl Amplicon_372	non-redundant amplicon of 6 matches	<a href="#">320</a>	2e-89
lcl Amplicon_760	non-redundant amplicon of 2 matches	<a href="#">318</a>	7e-89
lcl Amplicon_751	non-redundant amplicon of 2 matches	<a href="#">318</a>	7e-89
lcl Amplicon_162	non-redundant amplicon of 20 matches	<a href="#">318</a>	7e-89
lcl Amplicon_317	non-redundant amplicon of 10 matches	<a href="#">318</a>	7e-89
lcl Amplicon_459	non-redundant amplicon of 2 matches	<a href="#">316</a>	2e-88
lcl Amplicon_371	non-redundant amplicon of 6 matches	<a href="#">316</a>	2e-88
lcl Amplicon_766	non-redundant amplicon of 4 matches	<a href="#">315</a>	8e-88

lcl Amplicon_289	non-redundant amplicon of 6 matches	<u>313</u>	3e-87
lcl Amplicon_780	non-redundant amplicon of 2 matches	<u>306</u>	4e-85
lcl Amplicon_758	non-redundant amplicon of 2 matches	<u>306</u>	4e-85
lcl Amplicon_375	non-redundant amplicon of 6 matches	<u>289</u>	3e-80
lcl Amplicon_576	non-redundant amplicon of 2 matches	<u>289</u>	3e-80
lcl Amplicon_489	non-redundant amplicon of 4 matches	<u>286</u>	4e-79
lcl Amplicon_131	non-redundant amplicon of 36 matches	<u>260</u>	2e-71
lcl Amplicon_22	non-redundant amplicon of 18 matches	<u>257</u>	2e-70
lcl Amplicon_785	non-redundant amplicon of 2 matches	<u>248</u>	1e-67
lcl Amplicon_621	non-redundant amplicon of 10 matches	<u>248</u>	1e-67
lcl Amplicon_128	non-redundant amplicon of 54 matches	<u>248</u>	1e-67
lcl Amplicon_354	non-redundant amplicon of 5 matches	<u>241</u>	1e-65
lcl Amplicon_36	non-redundant amplicon of 2906 matches	<u>223</u>	4e-60
lcl Amplicon_458	non-redundant amplicon of 11 matches	<u>221</u>	1e-59
lcl Amplicon_261	non-redundant amplicon of 16 matches	<u>221</u>	1e-59
lcl Amplicon_119	non-redundant amplicon of 56 matches	<u>221</u>	1e-59
lcl Amplicon_249	non-redundant amplicon of 392 matches	<u>221</u>	1e-59
lcl Amplicon_178	non-redundant amplicon of 69 matches	<u>221</u>	1e-59
lcl Amplicon_712	non-redundant amplicon of 1 matches	<u>219</u>	5e-59
lcl Amplicon_484	non-redundant amplicon of 1 matches	<u>219</u>	5e-59
lcl Amplicon_226	non-redundant amplicon of 5 matches	<u>219</u>	5e-59
lcl Amplicon_48	non-redundant amplicon of 966 matches	<u>219</u>	5e-59
lcl Amplicon_442	non-redundant amplicon of 2 matches	<u>217</u>	2e-58
lcl Amplicon_724	non-redundant amplicon of 1 matches	<u>217</u>	2e-58
lcl Amplicon_681	non-redundant amplicon of 2 matches	<u>217</u>	2e-58
lcl Amplicon_678	non-redundant amplicon of 1 matches	<u>217</u>	2e-58
lcl Amplicon_594	non-redundant amplicon of 1 matches	<u>217</u>	2e-58
lcl Amplicon_79	non-redundant amplicon of 3 matches	<u>217</u>	2e-58
lcl Amplicon_463	non-redundant amplicon of 1 matches	<u>217</u>	2e-58
lcl Amplicon_91	non-redundant amplicon of 3 matches	<u>217</u>	2e-58
lcl Amplicon_98	non-redundant amplicon of 6 matches	<u>217</u>	2e-58
lcl Amplicon_300	non-redundant amplicon of 3 matches	<u>217</u>	2e-58
lcl Amplicon_58	non-redundant amplicon of 7 matches	<u>217</u>	2e-58
lcl Amplicon_332	non-redundant amplicon of 3 matches	<u>217</u>	2e-58
lcl Amplicon_9	non-redundant amplicon of 3 matches	<u>217</u>	2e-58
lcl Amplicon_306	non-redundant amplicon of 3 matches	<u>217</u>	2e-58
lcl Amplicon_741	non-redundant amplicon of 2 matches	<u>217</u>	2e-58
lcl Amplicon_13	non-redundant amplicon of 2835 matches	<u>217</u>	2e-58
lcl Amplicon_695	non-redundant amplicon of 1 matches	<u>215</u>	6e-58
lcl Amplicon_669	non-redundant amplicon of 1 matches	<u>215</u>	6e-58
lcl Amplicon_664	non-redundant amplicon of 1 matches	<u>215</u>	6e-58
lcl Amplicon_662	non-redundant amplicon of 1 matches	<u>215</u>	6e-58
lcl Amplicon_661	non-redundant amplicon of 6 matches	<u>215</u>	6e-58
lcl Amplicon_656	non-redundant amplicon of 1 matches	<u>215</u>	6e-58
lcl Amplicon_297	non-redundant amplicon of 22 matches	<u>215</u>	6e-58
lcl Amplicon_510	non-redundant amplicon of 2 matches	<u>215</u>	6e-58
lcl Amplicon_504	non-redundant amplicon of 1 matches	<u>215</u>	6e-58
lcl Amplicon_675	non-redundant amplicon of 1 matches	<u>214</u>	2e-57
lcl Amplicon_378	non-redundant amplicon of 3 matches	<u>214</u>	2e-57
lcl Amplicon_781	non-redundant amplicon of 1 matches	<u>214</u>	2e-57
lcl Amplicon_675	non-redundant amplicon of 1 matches	<u>214</u>	2e-57
lcl Amplicon_378	non-redundant amplicon of 3 matches	<u>214</u>	2e-57
lcl Amplicon_781	non-redundant amplicon of 1 matches	<u>214</u>	2e-57
lcl Amplicon_733	non-redundant amplicon of 1 matches	<u>214</u>	2e-57
lcl Amplicon_718	non-redundant amplicon of 1 matches	<u>214</u>	2e-57
lcl Amplicon_715	non-redundant amplicon of 1 matches	<u>214</u>	2e-57
lcl Amplicon_694	non-redundant amplicon of 2 matches	<u>214</u>	2e-57
lcl Amplicon_666	non-redundant amplicon of 22 matches	<u>214</u>	2e-57
lcl Amplicon_592	non-redundant amplicon of 1 matches	<u>214</u>	2e-57
lcl Amplicon_476	non-redundant amplicon of 1 matches	<u>214</u>	2e-57
lcl Amplicon_469	non-redundant amplicon of 1 matches	<u>214</u>	2e-57
lcl Amplicon_287	non-redundant amplicon of 6 matches	<u>214</u>	2e-57
lcl Amplicon_153	non-redundant amplicon of 25 matches	<u>214</u>	2e-57
lcl Amplicon_43	non-redundant amplicon of 9 matches	<u>214</u>	2e-57
lcl Amplicon_45	non-redundant amplicon of 597 matches	<u>214</u>	2e-57
lcl Amplicon_139	non-redundant amplicon of 84 matches	<u>214</u>	2e-57
lcl Amplicon_659	non-redundant amplicon of 1 matches	<u>212</u>	7e-57
lcl Amplicon_645	non-redundant amplicon of 2 matches	<u>212</u>	7e-57
lcl Amplicon_631	non-redundant amplicon of 4 matches	<u>212</u>	7e-57
lcl Amplicon_290	non-redundant amplicon of 3 matches	<u>212</u>	7e-57
lcl Amplicon_238	non-redundant amplicon of 44 matches	<u>212</u>	7e-57

lcl Amplicon_687	non-redundant amplicon of 2 matches	<a href="#">210</a>	3e-56
lcl Amplicon_623	non-redundant amplicon of 1 matches	<a href="#">210</a>	3e-56
lcl Amplicon_585	non-redundant amplicon of 3 matches	<a href="#">210</a>	3e-56
lcl Amplicon_514	non-redundant amplicon of 1 matches	<a href="#">210</a>	3e-56
lcl Amplicon_454	non-redundant amplicon of 1 matches	<a href="#">210</a>	3e-56
lcl Amplicon_340	non-redundant amplicon of 3 matches	<a href="#">210</a>	3e-56
lcl Amplicon_732	non-redundant amplicon of 4 matches	<a href="#">208</a>	9e-56
lcl Amplicon_730	non-redundant amplicon of 2 matches	<a href="#">208</a>	9e-56
lcl Amplicon_727	non-redundant amplicon of 1 matches	<a href="#">208</a>	9e-56
lcl Amplicon_711	non-redundant amplicon of 2 matches	<a href="#">208</a>	9e-56
lcl Amplicon_699	non-redundant amplicon of 4 matches	<a href="#">208</a>	9e-56
lcl Amplicon_691	non-redundant amplicon of 4 matches	<a href="#">208</a>	9e-56
lcl Amplicon_668	non-redundant amplicon of 4 matches	<a href="#">208</a>	9e-56
lcl Amplicon_467	non-redundant amplicon of 1 matches	<a href="#">208</a>	9e-56
lcl Amplicon_460	non-redundant amplicon of 1 matches	<a href="#">208</a>	9e-56
lcl Amplicon_736	non-redundant amplicon of 2 matches	<a href="#">208</a>	9e-56
lcl Amplicon_359	non-redundant amplicon of 6 matches	<a href="#">206</a>	3e-55
lcl Amplicon_163	non-redundant amplicon of 10 matches	<a href="#">206</a>	3e-55
lcl Amplicon_150	non-redundant amplicon of 13 matches	<a href="#">205</a>	1e-54
lcl Amplicon_731	non-redundant amplicon of 2 matches	<a href="#">205</a>	1e-54
lcl Amplicon_720	non-redundant amplicon of 2 matches	<a href="#">205</a>	1e-54
lcl Amplicon_713	non-redundant amplicon of 2 matches	<a href="#">205</a>	1e-54
lcl Amplicon_709	non-redundant amplicon of 2 matches	<a href="#">205</a>	1e-54
lcl Amplicon_707	non-redundant amplicon of 1 matches	<a href="#">205</a>	1e-54
lcl Amplicon_703	non-redundant amplicon of 4 matches	<a href="#">205</a>	1e-54
lcl Amplicon_698	non-redundant amplicon of 14 matches	<a href="#">205</a>	1e-54
lcl Amplicon_697	non-redundant amplicon of 2 matches	<a href="#">205</a>	1e-54
lcl Amplicon_693	non-redundant amplicon of 2 matches	<a href="#">205</a>	1e-54
lcl Amplicon_286	non-redundant amplicon of 7 matches	<a href="#">203</a>	4e-54
lcl Amplicon_774	non-redundant amplicon of 1 matches	<a href="#">203</a>	4e-54
lcl Amplicon_710	non-redundant amplicon of 2 matches	<a href="#">203</a>	4e-54
lcl Amplicon_665	non-redundant amplicon of 8 matches	<a href="#">203</a>	4e-54
lcl Amplicon_761	non-redundant amplicon of 1 matches	<a href="#">201</a>	1e-53
lcl Amplicon_700	non-redundant amplicon of 2 matches	<a href="#">199</a>	5e-53
lcl Amplicon_692	non-redundant amplicon of 2 matches	<a href="#">199</a>	5e-53
lcl Amplicon_605	non-redundant amplicon of 2 matches	<a href="#">199</a>	5e-53
lcl Amplicon_599	non-redundant amplicon of 1 matches	<a href="#">199</a>	5e-53
lcl Amplicon_513	non-redundant amplicon of 2 matches	<a href="#">199</a>	5e-53
lcl Amplicon_706	non-redundant amplicon of 2 matches	<a href="#">196</a>	6e-52
lcl Amplicon_690	non-redundant amplicon of 2 matches	<a href="#">196</a>	6e-52
lcl Amplicon_686	non-redundant amplicon of 2 matches	<a href="#">196</a>	6e-52
lcl Amplicon_683	non-redundant amplicon of 2 matches	<a href="#">196</a>	6e-52
lcl Amplicon_545	non-redundant amplicon of 12 matches	<a href="#">181</a>	1e-47
lcl Amplicon_321	non-redundant amplicon of 10 matches	<a href="#">181</a>	1e-47
lcl Amplicon_318	non-redundant amplicon of 5 matches	<a href="#">179</a>	4e-47
lcl Amplicon_457	non-redundant amplicon of 1 matches	<a href="#">170</a>	2e-44
lcl Amplicon_721	non-redundant amplicon of 10 matches	<a href="#">168</a>	8e-44
lcl Amplicon_376	non-redundant amplicon of 3 matches	<a href="#">163</a>	3e-42
lcl Amplicon_722	non-redundant amplicon of 2 matches	<a href="#">163</a>	3e-42
lcl Amplicon_457	non-redundant amplicon of 1 matches	<a href="#">170</a>	2e-44
lcl Amplicon_721	non-redundant amplicon of 10 matches	<a href="#">168</a>	8e-44
lcl Amplicon_376	non-redundant amplicon of 3 matches	<a href="#">163</a>	3e-42
lcl Amplicon_722	non-redundant amplicon of 2 matches	<a href="#">163</a>	3e-42
lcl Amplicon_629	non-redundant amplicon of 1 matches	<a href="#">161</a>	1e-41
lcl Amplicon_490	non-redundant amplicon of 1 matches	<a href="#">161</a>	1e-41
lcl Amplicon_202	non-redundant amplicon of 22 matches	<a href="#">159</a>	4e-41
lcl Amplicon_373	non-redundant amplicon of 3 matches	<a href="#">156</a>	5e-40
lcl Amplicon_23	non-redundant amplicon of 9 matches	<a href="#">150</a>	2e-38
lcl Amplicon_602	non-redundant amplicon of 2 matches	<a href="#">149</a>	7e-38
lcl Amplicon_14	non-redundant amplicon of 22510 matches	<a href="#">149</a>	7e-38
lcl Amplicon_616	non-redundant amplicon of 4 matches	<a href="#">147</a>	3e-37
lcl Amplicon_734	non-redundant amplicon of 4 matches	<a href="#">147</a>	3e-37
lcl Amplicon_565	non-redundant amplicon of 4 matches	<a href="#">145</a>	9e-37
lcl Amplicon_175	non-redundant amplicon of 134 matches	<a href="#">145</a>	9e-37
lcl Amplicon_126	non-redundant amplicon of 778 matches	<a href="#">145</a>	9e-37
lcl Amplicon_429	non-redundant amplicon of 8 matches	<a href="#">143</a>	3e-36
lcl Amplicon_672	non-redundant amplicon of 2 matches	<a href="#">143</a>	3e-36
lcl Amplicon_579	non-redundant amplicon of 2 matches	<a href="#">143</a>	3e-36
lcl Amplicon_511	non-redundant amplicon of 4 matches	<a href="#">143</a>	3e-36
lcl Amplicon_219	non-redundant amplicon of 10 matches	<a href="#">143</a>	3e-36
lcl Amplicon_466	non-redundant amplicon of 10 matches	<a href="#">143</a>	3e-36

lcl Amplicon_60	non-redundant amplicon of 14 matches	<a href="#">143</a>	3e-36
lcl Amplicon_59	non-redundant amplicon of 14 matches	<a href="#">143</a>	3e-36
lcl Amplicon_341	non-redundant amplicon of 6 matches	<a href="#">143</a>	3e-36
lcl Amplicon_44	non-redundant amplicon of 18 matches	<a href="#">143</a>	3e-36
lcl Amplicon_10	non-redundant amplicon of 5176 matches	<a href="#">143</a>	3e-36
lcl Amplicon_716	non-redundant amplicon of 2 matches	<a href="#">141</a>	1e-35
lcl Amplicon_293	non-redundant amplicon of 6 matches	<a href="#">141</a>	1e-35
lcl Amplicon_291	non-redundant amplicon of 6 matches	<a href="#">141</a>	1e-35
lcl Amplicon_302	non-redundant amplicon of 42 matches	<a href="#">141</a>	1e-35
lcl Amplicon_129	non-redundant amplicon of 9 matches	<a href="#">141</a>	1e-35
lcl Amplicon_667	non-redundant amplicon of 28 matches	<a href="#">140</a>	4e-35
lcl Amplicon_461	non-redundant amplicon of 2 matches	<a href="#">140</a>	4e-35
lcl Amplicon_69	non-redundant amplicon of 12 matches	<a href="#">140</a>	4e-35
lcl Amplicon_374	non-redundant amplicon of 6 matches	<a href="#">140</a>	4e-35
lcl Amplicon_360	non-redundant amplicon of 12 matches	<a href="#">140</a>	4e-35
lcl Amplicon_330	non-redundant amplicon of 18 matches	<a href="#">140</a>	4e-35
lcl Amplicon_51	non-redundant amplicon of 1198 matches	<a href="#">140</a>	4e-35
lcl Amplicon_624	non-redundant amplicon of 1 matches	<a href="#">138</a>	1e-34
lcl Amplicon_728	non-redundant amplicon of 1 matches	<a href="#">138</a>	1e-34
lcl Amplicon_725	non-redundant amplicon of 1 matches	<a href="#">138</a>	1e-34
lcl Amplicon_696	non-redundant amplicon of 1 matches	<a href="#">138</a>	1e-34
lcl Amplicon_682	non-redundant amplicon of 2 matches	<a href="#">138</a>	1e-34
lcl Amplicon_679	non-redundant amplicon of 1 matches	<a href="#">138</a>	1e-34
lcl Amplicon_657	non-redundant amplicon of 1 matches	<a href="#">138</a>	1e-34
lcl Amplicon_595	non-redundant amplicon of 1 matches	<a href="#">138</a>	1e-34
lcl Amplicon_538	non-redundant amplicon of 1 matches	<a href="#">138</a>	1e-34
lcl Amplicon_512	non-redundant amplicon of 2 matches	<a href="#">138</a>	1e-34
lcl Amplicon_92	non-redundant amplicon of 3 matches	<a href="#">138</a>	1e-34
lcl Amplicon_99	non-redundant amplicon of 6 matches	<a href="#">138</a>	1e-34
lcl Amplicon_80	non-redundant amplicon of 3 matches	<a href="#">138</a>	1e-34
lcl Amplicon_312	non-redundant amplicon of 6 matches	<a href="#">138</a>	1e-34
lcl Amplicon_333	non-redundant amplicon of 3 matches	<a href="#">138</a>	1e-34
lcl Amplicon_307	non-redundant amplicon of 3 matches	<a href="#">138</a>	1e-34
lcl Amplicon_742	non-redundant amplicon of 2 matches	<a href="#">138</a>	1e-34
lcl Amplicon_16	non-redundant amplicon of 2860 matches	<a href="#">138</a>	1e-34
lcl Amplicon_622	non-redundant amplicon of 10 matches	<a href="#">136</a>	5e-34
lcl Amplicon_505	non-redundant amplicon of 1 matches	<a href="#">136</a>	5e-34
lcl Amplicon_11	non-redundant amplicon of 4568 matches	<a href="#">136</a>	5e-34
lcl Amplicon_470	non-redundant amplicon of 1 matches	<a href="#">134</a>	2e-33
lcl Amplicon_361	non-redundant amplicon of 6 matches	<a href="#">134</a>	2e-33
lcl Amplicon_408	non-redundant amplicon of 3 matches	<a href="#">134</a>	2e-33
lcl Amplicon_759	non-redundant amplicon of 2 matches	<a href="#">134</a>	2e-33
lcl Amplicon_719	non-redundant amplicon of 1 matches	<a href="#">134</a>	2e-33
lcl Amplicon_717	non-redundant amplicon of 1 matches	<a href="#">134</a>	2e-33
lcl Amplicon_705	non-redundant amplicon of 2 matches	<a href="#">134</a>	2e-33
lcl Amplicon_704	non-redundant amplicon of 2 matches	<a href="#">134</a>	2e-33
lcl Amplicon_701	non-redundant amplicon of 1 matches	<a href="#">134</a>	2e-33
lcl Amplicon_688	non-redundant amplicon of 2 matches	<a href="#">134</a>	2e-33
lcl Amplicon_684	non-redundant amplicon of 2 matches	<a href="#">134</a>	2e-33
lcl Amplicon_704	non-redundant amplicon of 2 matches	<a href="#">134</a>	2e-33
lcl Amplicon_701	non-redundant amplicon of 1 matches	<a href="#">134</a>	2e-33
lcl Amplicon_688	non-redundant amplicon of 2 matches	<a href="#">134</a>	2e-33
lcl Amplicon_684	non-redundant amplicon of 2 matches	<a href="#">134</a>	2e-33
lcl Amplicon_680	non-redundant amplicon of 1 matches	<a href="#">134</a>	2e-33
lcl Amplicon_676	non-redundant amplicon of 1 matches	<a href="#">134</a>	2e-33
lcl Amplicon_660	non-redundant amplicon of 2 matches	<a href="#">134</a>	2e-33
lcl Amplicon_151	non-redundant amplicon of 13 matches	<a href="#">134</a>	2e-33
lcl Amplicon_515	non-redundant amplicon of 1 matches	<a href="#">134</a>	2e-33
lcl Amplicon_477	non-redundant amplicon of 1 matches	<a href="#">134</a>	2e-33
lcl Amplicon_288	non-redundant amplicon of 6 matches	<a href="#">134</a>	2e-33
lcl Amplicon_154	non-redundant amplicon of 25 matches	<a href="#">134</a>	2e-33
lcl Amplicon_319	non-redundant amplicon of 10 matches	<a href="#">134</a>	2e-33
lcl Amplicon_120	non-redundant amplicon of 108 matches	<a href="#">134</a>	2e-33
lcl Amplicon_231	non-redundant amplicon of 30 matches	<a href="#">134</a>	2e-33
lcl Amplicon_737	non-redundant amplicon of 2 matches	<a href="#">134</a>	2e-33
lcl Amplicon_140	non-redundant amplicon of 93 matches	<a href="#">134</a>	2e-33
lcl Amplicon_46	non-redundant amplicon of 641 matches	<a href="#">134</a>	2e-33
lcl Amplicon_620	non-redundant amplicon of 2 matches	<a href="#">132</a>	6e-33
lcl Amplicon_255	non-redundant amplicon of 11 matches	<a href="#">132</a>	6e-33
lcl Amplicon_606	non-redundant amplicon of 1 matches	<a href="#">132</a>	6e-33
lcl Amplicon_464	non-redundant amplicon of 1 matches	<a href="#">132</a>	6e-33

lcl Amplicon_658	non-redundant amplicon of 1 matches	<a href="#">131</a>	2e-32
lcl Amplicon_762	non-redundant amplicon of 1 matches	<a href="#">131</a>	2e-32
lcl Amplicon_729	non-redundant amplicon of 1 matches	<a href="#">131</a>	2e-32
lcl Amplicon_726	non-redundant amplicon of 1 matches	<a href="#">131</a>	2e-32
lcl Amplicon_708	non-redundant amplicon of 1 matches	<a href="#">131</a>	2e-32
lcl Amplicon_702	non-redundant amplicon of 1 matches	<a href="#">131</a>	2e-32
lcl Amplicon_689	non-redundant amplicon of 2 matches	<a href="#">131</a>	2e-32
lcl Amplicon_685	non-redundant amplicon of 2 matches	<a href="#">131</a>	2e-32
lcl Amplicon_677	non-redundant amplicon of 1 matches	<a href="#">131</a>	2e-32
lcl Amplicon_663	non-redundant amplicon of 1 matches	<a href="#">131</a>	2e-32
lcl Amplicon_632	non-redundant amplicon of 4 matches	<a href="#">131</a>	2e-32
lcl Amplicon_596	non-redundant amplicon of 1 matches	<a href="#">131</a>	2e-32
lcl Amplicon_539	non-redundant amplicon of 1 matches	<a href="#">131</a>	2e-32
lcl Amplicon_81	non-redundant amplicon of 3 matches	<a href="#">131</a>	2e-32
lcl Amplicon_412	non-redundant amplicon of 5 matches	<a href="#">131</a>	2e-32
lcl Amplicon_334	non-redundant amplicon of 3 matches	<a href="#">131</a>	2e-32
lcl Amplicon_19	non-redundant amplicon of 1106 matches	<a href="#">131</a>	2e-32
lcl Amplicon_308	non-redundant amplicon of 3 matches	<a href="#">131</a>	2e-32
lcl Amplicon_743	non-redundant amplicon of 2 matches	<a href="#">131</a>	2e-32
lcl Amplicon_625	non-redundant amplicon of 1 matches	<a href="#">129</a>	7e-32
lcl Amplicon_506	non-redundant amplicon of 1 matches	<a href="#">129</a>	7e-32
lcl Amplicon_462	non-redundant amplicon of 1 matches	<a href="#">129</a>	7e-32
lcl Amplicon_121	non-redundant amplicon of 63 matches	<a href="#">129</a>	7e-32
lcl Amplicon_738	non-redundant amplicon of 2 matches	<a href="#">129</a>	7e-32
lcl Amplicon_379	non-redundant amplicon of 3 matches	<a href="#">127</a>	2e-31
lcl Amplicon_362	non-redundant amplicon of 6 matches	<a href="#">127</a>	2e-31
lcl Amplicon_600	non-redundant amplicon of 1 matches	<a href="#">127</a>	2e-31
lcl Amplicon_478	non-redundant amplicon of 1 matches	<a href="#">127</a>	2e-31
lcl Amplicon_203	non-redundant amplicon of 17 matches	<a href="#">127</a>	2e-31
lcl Amplicon_155	non-redundant amplicon of 13 matches	<a href="#">127</a>	2e-31
lcl Amplicon_164	non-redundant amplicon of 10 matches	<a href="#">127</a>	2e-31
lcl Amplicon_204	non-redundant amplicon of 28 matches	<a href="#">127</a>	2e-31
lcl Amplicon_141	non-redundant amplicon of 87 matches	<a href="#">127</a>	2e-31
lcl Amplicon_782	non-redundant amplicon of 2 matches	<a href="#">125</a>	8e-31
lcl Amplicon_497	non-redundant amplicon of 2 matches	<a href="#">125</a>	8e-31
lcl Amplicon_377	non-redundant amplicon of 6 matches	<a href="#">123</a>	3e-30
lcl Amplicon_232	non-redundant amplicon of 19 matches	<a href="#">122</a>	1e-29
lcl Amplicon_165	non-redundant amplicon of 10 matches	<a href="#">120</a>	4e-29
lcl Amplicon_495	non-redundant amplicon of 1 matches	<a href="#">114</a>	1e-27
lcl Amplicon_205	non-redundant amplicon of 17 matches	<a href="#">114</a>	1e-27
lcl Amplicon_132	non-redundant amplicon of 9 matches	<a href="#">102</a>	9e-24
lcl Amplicon_355	non-redundant amplicon of 8 matches	<a href="#">100</a>	3e-23
lcl Amplicon_492	non-redundant amplicon of 2 matches	<a href="#">96.9</a>	4e-22
lcl Amplicon_491	non-redundant amplicon of 2 matches	<a href="#">91.5</a>	2e-20
lcl Amplicon_24	non-redundant amplicon of 9 matches	<a href="#">87.8</a>	2e-19
lcl Amplicon_133	non-redundant amplicon of 18 matches	<a href="#">80.6</a>	3e-17
lcl Amplicon_130	non-redundant amplicon of 27 matches	<a href="#">78.8</a>	1e-16
lcl Amplicon_133	non-redundant amplicon of 18 matches	<a href="#">80.6</a>	3e-17
lcl Amplicon_130	non-redundant amplicon of 27 matches	<a href="#">78.8</a>	1e-16

>[lcl|Amplicon\\_47 non-redundant amplicon of 6422 matches](#)

Length=195

Score = 352 bits (390), Expect = 3e-99  
 Identities = 195/195 (100%), Gaps = 0/195 (0%)

Strand=Plus/Plus

Query	368	GCTCCTACAAATGCCATATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG	427
-------	-----	---	-----

--	--	--	--

Sbjct	1	GCTCCTACAAATGCCATATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG	60
-------	---	---	----

Query	428	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC	487
-------	-----	--	-----

--	--	--	--

Sbjct	61	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC	120
-------	----	--	-----

Query	488	CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	547
-------	-----	---	-----

--	--	--	--

Sbjct	121	CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	180
-------	-----	---	-----

Query	548	CACAATCCCACTATC	562
-------	-----	-----------------	-----

--	--	--	--

Sbjct	181	CACAATCCCACTATC	195
-------	-----	-----------------	-----

Score = 280 bits (310), Expect = 2e-77  
 Identities = 155/155 (100%), Gaps = 0/155 (0%)  
 Strand=Plus/Plus

Query	107	GCTCCTACAAATGCCATATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG	166
-------	-----	---	-----

Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 226  
  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 155  
>lcl|Amplicon 194 non-redundant amplicon of 40 matches  
Length=195  
Score = 349 bits (386), Expect = 4e-98  
Identities = 193/193 (100%), Gaps = 0/193 (0%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 487  
  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
Query 548 CACAATCCCACTA 560  
  
Sbjct 181 CACAATCCCACTA 193  
Score = 280 bits (310), Expect = 2e-77  
Score = 280 bits (310), Expect = 2e-77  
Identities = 155/155 (100%), Gaps = 0/155 (0%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 226  
  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 155  
>lcl|Amplicon 152 non-redundant amplicon of 66 matches  
Length=195  
Score = 349 bits (386), Expect = 4e-98  
Identities = 193/193 (100%), Gaps = 0/193 (0%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 487  
  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
Query 548 CACAATCCCACTA 560  
  
Sbjct 181 CACAATCCCACTA 193  
Score = 280 bits (310), Expect = 2e-77  
Identities = 155/155 (100%), Gaps = 0/155 (0%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 226  
  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 155  
>lcl|Amplicon 723 non-redundant amplicon of 2 matches Length=195

Score = 347 bits (384), Expect = 1e-97  
Identities = 194/195 (99%), Gaps = 0/195 (0%)  
Strand=Plus/Plus

Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60 Query  
368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 487  
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
Query 548 CACAATCCCAC TATC 562  
||||||||||||||||  
Sbjct 181 CACAATCCCAC TATC 195

Score = 280 bits (310), Expect = 2e-77  
Identities = 155/155 (100%), Gaps = 0/155 (0%)  
Strand=Plus/Plus

Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 226  
||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 155

>[lcl|Amplicon 644 non-redundant amplicon of 4 matches](#)

Length=195

Score = 347 bits (384), Expect = 1e-97  
Identities = 194/195 (99%), Gaps = 0/195 (0%)  
Strand=Plus/Plus

Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
|| ||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 GCCCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 487  
||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
||||||||||||||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
Query 548 CACAATCCCAC TATC 562  
||||||||||||||||  
Sbjct 181 CACAATCCCAC TATC 195

Score = 275 bits (304), Expect = 7e-76  
Identities = 154/155 (99%), Gaps = 0/155 (0%)  
Strand=Plus/Plus

Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
|| ||||||||||||||||||||||||||||||||||||||  
Sbjct 1 GCCCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 226  
||||||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 226  
||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 155

>[lcl|Amplicon 593 non-redundant amplicon of 2 matches](#) Length=195

Score = 347 bits (384), Expect = 1e-97  
Identities = 194/195 (99%), Gaps = 0/195 (0%)  
Strand=Plus/Plus

Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
||||||||||||||||||||||||||||||||||||

Sbjct 1 GCTCCTACAAATGCCATATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCATCGTGGAAAAAGAACGTTTC 487  
 |||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCATCGTGGAAAAAGAACGTTTC 120  
 Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 |||||||  
 Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
 Query 548 CACAATCCCACTATC 562  
 |||||||  
 Sbjct 181 CTCAAATCCCACTATC 195  
 Score = 280 bits (310), Expect = 2e-77  
 Identities = 155/155 (100%), Gaps = 0/155 (0%)  
 Strand=Plus/Plus  
 Query 107 GCTCCTACAAATGCCATATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
 |||||||  
 Sbjct 1 GCTCCTACAAATGCCATATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCATCGTGGAAAAAGAACGTTTC 226  
 |||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCATCGTGGAAAAAGAACGTTTC 120  
 Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
 |||||||  
 Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 155  
 >[lcl|Amplicon\\_509 non-redundant amplicon of 4 matches](#) Length=195  
 Score = 347 bits (384), Expect = 1e-97  
 Identities = 194/195 (99%), Gaps = 0/195 (0%)  
 Strand=Plus/Plus  
 Query 368 GCTCCTACAAATGCCATATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
 |||||||  
 Sbjct 1 GCTCCTACAAATGCCATATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCATCGTGGAAAAAGAACGTTTC 487  
 |||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCATCGTGGAAAAAGAACGTTTC 120  
 Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 |||||||  
 Sbjct 121 CAACCACGTATTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
 Query 548 CACAATCCCACTATC 562  
 |||||||  
 Sbjct 121 CAACCACGTATTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
 Query 548 CACAATCCCACTATC 562  
 |||||||  
 Sbjct 181 CACAATCCCACTATC 195  
 Score = 275 bits (304), Expect = 7e-76  
 Identities = 154/155 (99%), Gaps = 0/155 (0%)  
 Strand=Plus/Plus  
 Query 107 GCTCCTACAAATGCCATATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
 |||||||  
 Sbjct 1 GCTCCTACAAATGCCATATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCATCGTGGAAAAAGAACGTTTC 226  
 |||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCATCGTGGAAAAAGAACGTTTC 120  
 Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
 |||||||  
 Sbjct 121 CAACCACGTATTCAAAGCAAGTGGATTGATGTGAT 155  
 >[lcl|Amplicon\\_97 non-redundant amplicon of 12 matches](#) Length=195  
 Score = 347 bits (384), Expect = 1e-97  
 Identities = 194/195 (99%), Gaps = 0/195 (0%)  
 Strand=Plus/Plus  
 Query 368 GCTCCTACAAATGCCATATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
 |||||||  
 Sbjct 1 GCTCCTACAAATGCCATATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCATCGTGGAAAAAGAACGTTTC 487  
 |||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCATCGTGGAAAAAGAACGTTTC 120  
 Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 |||||||  
 Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
 Query 548 CACAATCCCACTATC 562  
 |||||||

Sbjct 181 CACAATCCCACTATC 195  
Score = 275 bits (304), Expect = 7e-76  
Identities = 154/155 (99%), Gaps = 0/155 (0%)  
Strand=Plus/Plus

Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 226  
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATATGAT 155  
>lcl|Amplicon 78 non-redundant amplicon of 6 matches  
Length=195  
Score = 347 bits (384), Expect = 1e-97  
Identities = 194/195 (99%), Gaps = 0/195 (0%)  
Strand=Plus/Plus  
Score = 347 bits (384), Expect = 1e-97  
Identities = 194/195 (99%), Gaps = 0/195 (0%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 487  
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 120  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATGGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
Query 548 CACAATCCCACTATC 562  
||||||||||||||||  
Sbjct 181 CACAATCCCACTATC 195  
Score = 275 bits (304), Expect = 7e-76  
Identities = 154/155 (99%), Gaps = 0/155 (0%)  
Strand=Plus/Plus

Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 226  
||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
||||||||||||||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATGGATGTGAT 155  
>lcl|Amplicon 57 non-redundant amplicon of 14 matches  
Length=195  
Score = 347 bits (384), Expect = 1e-97  
Identities = 194/195 (99%), Gaps = 0/195 (0%)  
Strand=Plus/Plus  
Score = 347 bits (384), Expect = 1e-97  
Identities = 194/195 (99%), Gaps = 0/195 (0%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 487  
||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 120  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
||||||||||||||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
Query 548 CACAATCCCACTATC 562  
||||||||||||||||  
Sbjct 181 CACAATCCCACTATC 195  
Score = 275 bits (304), Expect = 7e-76  
Identities = 154/155 (99%), Gaps = 0/155 (0%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
||||||||||||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 226

Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
|||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 226  
|||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
|||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 155  
>lcl|Amplicon\_411 non-redundant amplicon of 10 matches  
Length=195  
Score = 347 bits (384), Expect = 1e-97  
Identities = 194/195 (99%), Gaps = 0/195 (0%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
|||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 487  
|||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
|||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
Query 548 CACAATCCCAC T 562  
|||||||  
Sbjct 181 CACAATCCCAC T 195  
Score = 275 bits (304), Expect = 7e-76  
Identities = 154/155 (99%), Gaps = 0/155 (0%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
|||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 226  
|||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
|||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 155  
>lcl|Amplicon\_346 non-redundant amplicon of 12 matches  
Length=195  
Score = 347 bits (384), Expect = 1e-97  
Identities = 194/195 (99%), Gaps = 0/195 (0%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
|||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 487  
|||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
|||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
|||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
Query 548 CACAATCCCAC T 562  
|||||||  
Sbjct 181 CACAATCCCAC T 195  
Score = 275 bits (304), Expect = 7e-76  
Identities = 154/155 (99%), Gaps = 0/155 (0%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
|||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 226  
|||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261

||||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 155  
>lcl|Amplicon\_339 non-redundant amplicon of 6 matches  
Length=195  
Score = 347 bits (384), Expect = 1e-97  
Identities = 194/195 (99%), Gaps = 0/195 (0%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
||||||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTTC 487  
||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTTC 120  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
||||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
Query 548 CACAATCCCACTATC 562  
||||||||||||||||||  
Sbjct 181 CACAATCCCACTATC 195  
Score = 275 bits (304), Expect = 7e-76  
Identities = 154/195 (99%), Gaps = 0/195 (0%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTTC 226  
||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTTC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 155  
>lcl|Amplicon\_305 non-redundant amplicon of 6 matches  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 155  
>lcl|Amplicon\_305 non-redundant amplicon of 6 matches  
Length=195  
Score = 347 bits (384), Expect = 1e-97  
Identities = 194/195 (99%), Gaps = 0/195 (0%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTTC 487  
||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTTC 120  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
Query 548 CACAATCCCACTATC 562  
||||||||||||||||||  
Sbjct 181 CACTATCCCACTATC 195  
Score = 280 bits (310), Expect = 2e-77  
Identities = 155/155 (100%), Gaps = 0/155 (0%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTTC 226  
||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTTC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 155  
>lcl|Amplicon\_739 non-redundant amplicon of 4 matches  
Length=195  
Score = 347 bits (384), Expect = 1e-97  
Identities = 194/195 (99%), Gaps = 0/195 (0%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427

Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 487  
 ||||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 61 ACAGTTGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
 Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 ||||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
 Query 548 CACAATCCC ACTATC 562  
 ||||| ||||||||||||||  
 Sbjct 181 CACAATCCC ACTATC 195  
 Score = 275 bits (304), Expect = 7e-76  
 Identities = 154/155 (99%), Gaps = 0/155 (0%)  
 Strand=Plus/Plus  
 Score = 275 bits (304), Expect = 7e-76  
 Identities = 154/155 (99%), Gaps = 0/155 (0%)  
 Strand=Plus/Plus  
 Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
 ||||| ||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 226  
 ||||| ||||||||||||||||||||||||||||||||||||||  
 Sbjct 61 ACAGTTGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
 Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261  
 ||||| ||||||||||||||||||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 155  
[>lcl|Amplicon 292 non-redundant amplicon of 6 matches](#)  
 Length=196  
 Score = 345 bits (382), Expect = 5e-97  
 Identities = 195/196 (99%), Gaps = 1/196 (1%)  
 Strand=Plus/Plus  
 Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
 ||||| ||||||||||||||||||||||||||||||||||||||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCC-ACGAGGAGCATCGTGGAAAAGAACGTTC 486  
 ||||| ||||||||||||||||||||||||||||||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
 Query 487 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 546  
 ||||| ||||||||||||||||||||||||||||||  
 Sbjct 121 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 180  
 Query 547 GCACAATCCC ACTATC 562  
 ||||| ||||||||||||||  
 Sbjct 181 GCACAATCCC ACTATC 196  
 Score = 273 bits (302), Expect = 3e-75  
 Identities = 155/156 (99%), Gaps = 1/156 (1%)  
 Strand=Plus/Plus  
 Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
 ||||| ||||||||||||||||||||||||||||||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 167 ACAGTGGTCCCAAAGATGGACCCCC-CCCACGAGGAGCATCGTGGAAAAGAACGTTC 225  
 ||||| ||||||||||||||||||||||||||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
 Query 226 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261  
 ||||| ||||||||||||||||||  
 Sbjct 121 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 156  
[>lcl|Amplicon 301 non-redundant amplicon of 24 matches](#)  
 Length=196  
 Score = 345 bits (382), Expect = 5e-97  
 Identities = 195/196 (99%), Gaps = 1/196 (1%)  
 Strand=Plus/Plus  
 Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
 ||||| ||||||||||||||||||||||||||||||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGG-AAAAAGAACGTTC 486  
 ||||| ||||||||||||||||||||||||||||||

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAAGAACGTT 120  
Query 487 CCAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 546  
||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 121 CCAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 180  
Query 547 GCACAATCCC ACTATC 562  
|||||||||||||||  
Sbjct 181 GCACAATCCC ACTATC 196  
Score = 273 bits (302), Expect = 3e-75  
Identities = 155/156 (99%), Gaps = 1/156 (1%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGG-AAAAAGAACGTT 225  
||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAAGAACGTT 120  
Query 226 CCAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
||||||||||||||||||||||||||||||||||||  
Sbjct 121 CCAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 156  
>lcl|Amplicon\_296 non-redundant amplicon of 4 matches  
Length=195  
Score = 343 bits (380), Expect = 2e-96  
Identities = 193/195 (99%), Gaps = 0/195 (0%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTT 487  
||||||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTT 120  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
||||||||||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATAACTCCACTGACGTAAGGGATGACG 180  
Query 548 CACAATCCC ACTATC 562  
|||||||||||||||  
Sbjct 181 AACAAATCCC ACTATC 195  
Score = 280 bits (310), Expect = 2e-77  
Identities = 155/155 (100%), Gaps = 0/155 (0%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
||||||||||||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTT 226  
||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTT 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTT 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 155  
>lcl|Amplicon\_673 non-redundant amplicon of 4 matches Length=195  
Score = 343 bits (380), Expect = 2e-96  
Identities = 193/195 (99%), Gaps = 0/195 (0%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
||||||||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTGCCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTT 487  
||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTT 120  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
Query 548 CACAATCCC ACTATC 562  
|||||||||||||||  
Sbjct 181 CACAATCCC ACTATC 195  
Score = 271 bits (300), Expect = 9e-75  
Identities = 153/155 (99%), Gaps = 0/155 (0%)

Strand=Plus/Plus

Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
 |||||||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCATCGTGGAAAAGAACGTTC 226  
 |||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCATCGTGGAAAAGAACGTTC 120  
 Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
 |||||||  
 Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 155

>lcl|Amplicon 500 non-redundant amplicon of 10 matches

Length=195

Score = 343 bits (380), Expect = 2e-96  
 Identities = 193/195 (99%), Gaps = 0/195 (0%)

Strand=Plus/Plus

Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
 |||||||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATCTCTGCCG 60  
 Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCATCGTGGAAAAGAACGTTC 487  
 |||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCATCGTGGAAAAGAACGTTC 120  
 Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 |||||||  
 Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
 Query 548 CACAATCCCAC T 562  
 |||||||  
 Sbjct 181 CACAATCCCAC T 195  
 Query 548 CACAATCCCAC T 562  
 |||||||  
 Sbjct 181 CACAATCCCAC T 195

Score = 271 bits (300), Expect = 9e-75  
 Identities = 153/155 (99%), Gaps = 0/155 (0%)

Strand=Plus/Plus

Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
 |||||||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATCTCTGCCG 60  
 Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCATCGTGGAAAAGAACGTTC 226  
 |||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCATCGTGGAAAAGAACGTTC 120  
 Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
 |||||||  
 Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 155

>lcl|Amplicon 68 non-redundant amplicon of 12 matches Length=194

Score = 343 bits (380), Expect = 2e-96  
 Identities = 194/195 (99%), Gaps = 1/195 (1%)

Strand=Plus/Plus

Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
 |||||||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCATCGTGGAAAAGAACGTTC 487  
 |||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCA-CGTGGAAAAGAACGTTC 119  
 Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 |||||||  
 Sbjct 120 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 179  
 Query 548 CACAATCCCAC T 562  
 |||||||  
 Sbjct 180 CACAATCCCAC T 194

Score = 271 bits (300), Expect = 9e-75  
 Identities = 154/155 (99%), Gaps = 1/155 (1%)

Strand=Plus/Plus

Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
 |||||||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCATCGTGGAAAAGAACGTTC 226  
 |||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCA-CGTGGAAAAGAACGTTC 119  
 Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261

||||||||||||||||||||||||||||||  
Sbjct 120 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 154  
>lcl|Amplicon\_201 non-redundant amplicon of 182 matches  
Length=195  
Score = 343 bits (380), Expect = 2e-96  
Identities = 193/195 (99%), Gaps = 0/195 (0%)  
Strand=Plus/Plus  
Score = 343 bits (380), Expect = 2e-96  
Identities = 193/195 (99%), Gaps = 0/195 (0%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
||||||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 487  
||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 120  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
||||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
Query 548 CACAATCCC ACTATC 562  
||||||||||||||  
Sbjct 181 ACAAAATCCC ACTATC 195  
Score = 275 bits (304), Expect = 7e-76  
Identities = 154/155 (99%), Gaps = 0/155 (0%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 226  
||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 155  
>lcl|Amplicon\_735 non-redundant amplicon of 4 matches  
Length=195  
Score = 343 bits (380), Expect = 2e-96  
Identities = 194/195 (99%), Gaps = 1/195 (1%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 487  
||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 120  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
Query 548 CACAATCC -CACTAT 561  
|||||||| ||||||  
Sbjct 181 CACAATCCGCACTAT 195  
Score = 280 bits (310), Expect = 2e-77  
Identities = 155/155 (100%), Gaps = 0/155 (0%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 226  
||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 226  
||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 155  
>lcl|Amplicon\_674 non-redundant amplicon of 6 matches  
Length=195

Score = 338 bits (374), Expect = 7e-95  
Identities = 192/195 (98%), Gaps = 0/195 (0%)  
Strand=Plus/Plus

Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTGCCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 487  
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 120  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTTAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
Query 548 CACAATCCCAC T A T C 562  
||||||||||||||||  
Sbjct 181 CACAATCCCAC T A T C 195

Score = 266 bits (294), Expect = 4e-73  
Identities = 152/155 (98%), Gaps = 0/155 (0%)  
Strand=Plus/Plus

Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 226  
||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTTAAAGCAAGTGGATTGATGTGAT 155

>lcl|Amplicon 671 non-redundant amplicon of 2 matches Length=195

Score = 338 bits (374), Expect = 7e-95  
Identities = 192/195 (98%), Gaps = 0/195 (0%)  
Strand=Plus/Plus

Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTGCCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 487  
||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGACGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 120  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
||||||||||||||||||||||||||||||||||||||||  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
||||||||||||||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
Query 548 CACAATCCCAC T A T C 562  
||||||||||||||||  
Sbjct 181 CACAATCCCAC T A T C 195

Score = 266 bits (294), Expect = 4e-73  
Identities = 152/155 (98%), Gaps = 0/155 (0%)  
Strand=Plus/Plus

Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
||||||||||||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 226  
||||||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGACGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 155

>lcl|Amplicon 383 non-redundant amplicon of 18 matches

Length=195

Score = 338 bits (374), Expect = 7e-95  
Identities = 192/195 (98%), Gaps = 0/195 (0%)  
Strand=Plus/Plus

Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
||||||||||||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTGCCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 487  
||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGACGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 120

Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
|||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG 180  
Query 548 CACAATCCCACTATC 562  
|||||||  
Sbjct 181 CACAATCCCACTATC 195  
Score = 269 bits (298), Expect = 3e-74  
Identities = 152/154 (99%), Gaps = 0/154 (0%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
|||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 226  
|||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGA 260  
|||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGA 154  
>[lcl|Amplicon 218 non-redundant amplicon of 8 matches](#) Length=195  
>[lcl|Amplicon 218 non-redundant amplicon of 8 matches](#) Length=195  
Score = 338 bits (374), Expect = 7e-95  
Identities = 192/195 (98%), Gaps = 0/195 (0%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
|||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTACCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 487  
|||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 120  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
|||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
Query 548 CACAATCCCACTATC 562  
|||||||  
Sbjct 181 CACAATCCCACTATC 195  
Score = 266 bits (294), Expect = 4e-73  
Identities = 152/155 (98%), Gaps = 0/155 (0%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
|||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTACCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 226  
|||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
|||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 155  
>[lcl|Amplicon 33 non-redundant amplicon of 2740 matches](#)  
Length=195  
Score = 338 bits (374), Expect = 7e-95  
Identities = 192/195 (98%), Gaps = 0/195 (0%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
|||  
Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTGCCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 487  
|||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 120  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
|||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
Query 548 CACAATCCCACTATC 562  
|||  
Sbjct 181 CACAATCCCACTATC 195  
Score = 266 bits (294), Expect = 4e-73  
Identities = 152/155 (98%), Gaps = 0/155 (0%)  
Strand=Plus/Plus  
Score = 266 bits (294), Expect = 4e-73

Identities = 152/155 (98%), Gaps = 0/155 (0%)

Strand=Plus/Plus

Query	107	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG	166
Sbjct	1	GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTGCCG	60
Query	167	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC	226
Sbjct	61	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC	120
Query	227	CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT	261
Sbjct	121	CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT	155

>lcl|Amplicon 93 non-redundant amplicon of 62 matches

Length=195

Score = 336 bits (372), Expect = 3e-94

Identities = 189/191 (99%), Gaps = 0/191 (0%)

Strand=Plus/Plus

Query	372	CTACAAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCGACAG	431
Sbjct	5	CTACAAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTGCCGACAG	64
Query	432	TGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC AAC	491
Sbjct	65	TGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC AAC	124
Query	492	CACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCACA	551
Sbjct	125	CACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCACA	184
Query	552	ATCCCAC TATC 562	

Sbjct 185 ATCCCAC TATC 195

Score = 264 bits (292), Expect = 1e-72

Identities = 149/151 (99%), Gaps = 0/151 (0%)

Strand=Plus/Plus

Query	111	CTACAAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCGACAG	170
Sbjct	5	CTACAAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTGCCGACAG	64
Query	171	TGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC AAC	230
Sbjct	65	TGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC AAC	124
Query	231	CACGTCTTCAAAGCAAGTGGATTGATGTGAT	261
Sbjct	125	CACGTCTTCAAAGCAAGTGGATTGATGTGAT	155

>lcl|Amplicon 789 non-redundant amplicon of 76 matches

Length=195

Score = 334 bits (370), Expect = 9e-94

Identities = 191/195 (98%), Gaps = 0/195 (0%)

Strand=Plus/Plus

Query	368	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG	427
Sbjct	1	GCACCTACAAATGCCATAATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTGCCG	60
Query	428	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC	487
Sbjct	1	GCACCTACAAATGCCATAATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTGCCG	60
Query	428	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC	487
Sbjct	61	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC	120
Query	488	CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	547
Sbjct	121	CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	180

Query 548 CACAATCCCAC TATC 562

|||||||||||

Sbjct 181 CACAATCCCAC TATC 195

Score = 262 bits (290), Expect = 5e-72

Identities = 151/155 (97%), Gaps = 0/155 (0%)

Strand=Plus/Plus

Query	107	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG	166
Sbjct	1	GCACCTACAAATGCCATAATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTGCCG	60
Query	167	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC	226

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
|||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 155  
>lcl|Amplicon 577 non-redundant amplicon of 2 matches  
Length=195  
Score = 334 bits (370), Expect = 9e-94  
Identities = 191/195 (98%), Gaps = 0/195 (0%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
|||||||  
Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTGCCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 487  
|||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACAAGGAGCATCGTGGAAAAAGAACGTTC 120  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
|||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
Query 548 CACAATCCCAC TATC 562  
|||||||  
Sbjct 181 CACAATCCCAC TATC 195  
Score = 262 bits (290), Expect = 5e-72  
Identities = 151/155 (97%), Gaps = 0/155 (0%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
|||||||  
Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 226  
|||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACAAGGAGCATCGTGGAAAAAGAACGTTC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
|||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 155  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
|||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 155  
>lcl|Amplicon 501 non-redundant amplicon of 2 matches Length=195  
Score = 334 bits (370), Expect = 9e-94  
Identities = 191/195 (98%), Gaps = 0/195 (0%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
|||||||  
Sbjct 1 GCACCTACAAATGCCATCATTGCGAAAAAGGAAAGGCCATCGTTCAAGATGCCTCTGCCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 487  
|||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACAAGGAGCATCGTGGAAAAAGAACGTTC 120  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
|||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
Query 548 CACAATCCCAC TATC 562  
|||||||  
Sbjct 181 CACAATCCCAC TATC 195  
Score = 262 bits (290), Expect = 5e-72  
Identities = 151/155 (97%), Gaps = 0/155 (0%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
|||||||  
Sbjct 1 GCACCTACAAATGCCATCATTGCGAAAAAGGAAAGGCCATCGTTCAAGATGCCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 226  
|||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACAAGGAGCATCGTGGAAAAAGAACGTTC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
|||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 155  
>lcl|Amplicon 273 non-redundant amplicon of 6 matches  
Length=195  
Score = 334 bits (370), Expect = 9e-94

Identities = 191/195 (98%), Gaps = 0/195 (0%)

Strand=Plus/Plus

Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427

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

Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGNCTATCGTTCAAGATGCCTCTGCCG 60

Query 428 ACAGTGGTCCCAAAGATGGACCCCACCCACGAGGAGCATCGTGAAAAGAACGTTC 487

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

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCACCCACGAGGAGCATCGTGAAAAGAACGTTC 120

Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547

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

Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180

Query 548 CACAATCCCACATAC 562

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

Sbjct 181 CACAATCCCACATAC 195

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

Sbjct 181 CACAATCCCACATAC 195

Score = 262 bits (290), Expect = 5e-72

Identities = 151/155 (97%), Gaps = 0/155 (0%)

Strand=Plus/Plus

Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166

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

Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGNCTATCGTTCAAGATGCCTCTGCCG 60

Query 167 ACAGTGGTCCCAAAGATGGACCCCACCCACGAGGAGCATCGTGAAAAGAACGTTC 226

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

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCACCCACGAGGAGCATCGTGAAAAGAACGTTC 120

Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261

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

Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 155

>lcl|Amplicon 90 non-redundant amplicon of 6 matches Length=195

Score = 334 bits (370), Expect = 9e-94

Identities = 191/195 (98%), Gaps = 0/195 (0%)

Strand=Plus/Plus

Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427

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

Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTGCCG 60

Query 428 ACAGTGGTCCCAAAGATGGACCCCACCCACGAGGAGCATCGTGAAAAGAACGTTC 487

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

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCACCCACGAGGAGCATCGTGAAAAGAACGTTC 120

Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547

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

Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180

Query 548 CACAATCCCACATAC 562

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

Sbjct 181 CACAATCCCACATAC 195

Score = 262 bits (290), Expect = 5e-72

Identities = 151/155 (97%), Gaps = 0/155 (0%)

Strand=Plus/Plus

Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166

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

Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTGCCG 60

Query 167 ACAGTGGTCCCAAAGATGGACCCCACCCACGAGGAGCATCGTGAAAAGAACGTTC 226

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

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCACCCACGAGGAGCATCGTGAAAAGAACGTTC 120

Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261

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

Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 155

>lcl|Amplicon 71 non-redundant amplicon of 8 matches Length=194

Score = 334 bits (370), Expect = 9e-94

Identities = 192/195 (98%), Gaps = 1/195 (1%)

Strand=Plus/Plus

Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427

Identities = 192/195 (98%), Gaps = 1/195 (1%)

Strand=Plus/Plus

Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427

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

Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60

Query 428 ACAGTGGTCCCAAAGATGGACCCCACCCACGAGGAGCATCGTGAAAAGAACGTTC 487

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

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACGCACGAGGAGCA-CGTGGAAAAACAAGACGTT 119  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
||||||||||||||||||||||||||||||||  
Sbjct 120 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 179  
Query 548 CACAATCCCACTATC 562  
|||||||||||||||  
Sbjct 180 CACAATCCCACTATC 194  
Score = 262 bits (290), Expect = 5e-72  
Identities = 152/155 (98%), Gaps = 1/155 (1%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
||||||||||||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTT 226  
||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACGCACGAGGAGCA-CGTGGAAAAACAAGACGTT 119  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
||||||||||||||||||||||||||||  
Sbjct 120 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 154  
>lcl|Amplicon\_67 non-redundant amplicon of 48 matches  
Length=195  
Score = 334 bits (370), Expect = 9e-94  
Identities = 191/195 (98%), Gaps = 0/195 (0%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
|| ||||||||||||||||||||||||||||||  
Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATGCCTCTGCCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTT 487  
||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTT 120  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
Query 548 CACAATCCCACTATC 562  
|||||||||||||||  
Sbjct 181 CACAATCCCACTATC 195  
Score = 262 bits (290), Expect = 5e-72  
Identities = 151/155 (97%), Gaps = 0/155 (0%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
|| ||||||||||||||||||||||||||  
Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATGCCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTT 226  
||||||||||||||||||||||||||||  
Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATGCCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTT 226  
||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTT 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 155  
>lcl|Amplicon\_428 non-redundant amplicon of 8 matches Length=195  
Score = 334 bits (370), Expect = 9e-94  
Identities = 191/195 (98%), Gaps = 0/195 (0%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
|| ||||||||||||||||||||||||||  
Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGCCCTGCCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTT 487  
||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTT 120  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 180  
Query 548 CACAATCCCACTATC 562  
|||||||||||||||  
Sbjct 181 CACAATCCCACTATC 195  
Score = 262 bits (290), Expect = 5e-72

Identities = 151/155 (97%), Gaps = 0/155 (0%)

Strand=Plus/Plus

Query	107	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG	166
Sbjct	1	GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTGCCG	60
Query	167	ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCATCGTGAAAAGAACGTTC	226
Sbjct	61	ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCATCGTGAAAAGAACGTTC	120
Query	227	CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT	261
Sbjct	121	CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT	155

>lcl|Amplicon\_200 non-redundant amplicon of 112 matches

Length=195

Score = 334 bits (370), Expect = 9e-94

Identities = 190/193 (98%), Gaps = 0/193 (0%)

Strand=Plus/Plus

Query	368	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG	427
Sbjct	1	GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTGCCG	60
Query	428	ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCATCGTGAAAAGAACGTTC	487
Sbjct	61	ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCATCGTGAAAAGAACGTTC	120
Query	488	CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	547
Sbjct	121	CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	180
Query	488	CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	547
Sbjct	121	CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	180
Query	548	CACAATCCCACTA	560

Sbjct 181 CACAATCCCACTA 193

Score = 266 bits (294), Expect = 4e-73

Identities = 152/155 (98%), Gaps = 0/155 (0%)

Strand=Plus/Plus

Query	107	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG	166
Sbjct	1	GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTGCCG	60
Query	167	ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCATCGTGAAAAGAACGTTC	226
Sbjct	61	ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCATCGTGAAAAGAACGTTC	120
Query	227	CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT	261
Sbjct	121	CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT	155

>lcl|Amplicon\_327 non-redundant amplicon of 12 matches

Length=195

Score = 334 bits (370), Expect = 9e-94

Identities = 191/195 (98%), Gaps = 0/195 (0%)

Strand=Plus/Plus

Query	368	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG	427
Sbjct	1	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAATGCCTCTGCCG	60
Query	428	ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCATCGTGAAAAGAACGTTC	487
Sbjct	61	ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCATCGTGAAAAGAACGTTC	120
Query	488	CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	547
Sbjct	121	CAACCACGTCTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG	180
Query	548	CACAATCCCACTATC	562

Sbjct 181 CACAATCCCACTATC 195

Score = 264 bits (292), Expect = 1e-72

Identities = 151/154 (98%), Gaps = 0/154 (0%)

Strand=Plus/Plus

Query	107	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG	166
Sbjct	1	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAATGCCTCTGCCG	60
Query	167	ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCATCGTGAAAAGAACGTTC	226

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGA 260  
|||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGA 154  
>lcl|Amplicon 50 non-redundant amplicon of 308 matches  
Length=195  
>lcl|Amplicon 50 non-redundant amplicon of 308 matches  
Length=195  
Score = 334 bits (370), Expect = 9e-94  
Identities = 191/195 (98%), Gaps = 0/195 (0%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
|||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGCCTCTACCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTTC 487  
|||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAAACATCGTGGAAAAGAACGTTTC 120  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCACTGACGTAAGGGATGACG 547  
|||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCACTGACGTAAGGGATGACG 180  
Query 548 CACAATCCCACATAC 562  
|||||||  
Sbjct 181 CACAATCCCACATAC 195  
Score = 262 bits (290), Expect = 5e-72  
Identities = 151/155 (97%), Gaps = 0/155 (0%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
|||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGCCTCTACCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTTC 226  
|||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAAACATCGTGGAAAAGAACGTTTC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
|||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 155  
>lcl|Amplicon 12 non-redundant amplicon of 4816 matches  
Length=195  
Score = 334 bits (370), Expect = 9e-94  
Identities = 191/195 (98%), Gaps = 0/195 (0%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
|||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATGCCTCTGCCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTTC 487  
|||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTTC 120  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCACTGACGTAAGGGATGACG 547  
|||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGACATCTCACTGACGTAAGGGATGACG 180  
Query 548 CACAATCCCACATAC 562  
|||||||  
Sbjct 181 CACAATCCCACATAC 195  
Score = 264 bits (292), Expect = 1e-72  
Identities = 151/154 (98%), Gaps = 0/154 (0%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
|||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATGCCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTTC 226  
|||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTTC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGA 260  
|||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGA 154  
>lcl|Amplicon 279 non-redundant amplicon of 28 matches  
Length=196  
Score = 333 bits (368), Expect = 3e-93

Identities = 192/196 (98%), Gaps = 1/196 (1%)

Strand=Plus/Plus

Query	368	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGA-TGCCTCTGCC	426
Sbjct	1	GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGAATGCCTCTGCC	60
Query	427	GACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTT	486
Sbjct	61	GACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTT	120
Query	487	CCAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC	546
Sbjct	121	CCAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC	180
Query	547	GCACAATCCCCTACTATC 562	
Sbjct	181	GCACAATCCCCTACTATC 196	

Score = 260 bits (288), Expect = 2e-71

Identities = 152/156 (97%), Gaps = 1/156 (1%)

Strand=Plus/Plus

Query	107	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGA-TGCCTCTGCC	165
Sbjct	1	GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGAATGCCTCTGCC	60
Query	166	GACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTT	225
Sbjct	61	GACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTT	120
Query	226	CCAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261	
Sbjct	121	CCAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 156	

>[lcl|Amplicon 353 non-redundant amplicon of 6 matches](#) Length=196

Score = 333 bits (368), Expect = 3e-93

Identities = 192/196 (98%), Gaps = 1/196 (1%)

Strand=Plus/Plus

Query	368	GCTCCTACAAATGCCATCATTGCGATAAAGGAAA-GGCCATCGTTGAAGATGCCTCTGCC	426
Sbjct	1	GCACCTACAAATGCCATCATTGCGATAAAGGAAAAGGCTATCGTTCAAGATGCCTCTGCC	60
Query	427	GACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTT	486
Sbjct	61	GACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTT	120
Query	427	GACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTT 486	

Sbjct	61	GACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTT	120
Query	487	CCAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC	546
Sbjct	121	CCAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC	180
Query	547	GCACAATCCCCTACTATC 562	
Sbjct	181	GCACAATCCCCTACTATC 196	

Score = 260 bits (288), Expect = 2e-71

Identities = 152/156 (97%), Gaps = 1/156 (1%)

Strand=Plus/Plus

Query	107	GCTCCTACAAATGCCATCATTGCGATAAAGGAAA-GGCCATCGTTGAAGATGCCTCTGCC	165
Sbjct	1	GCACCTACAAATGCCATCATTGCGATAAAGGAAAAGGCTATCGTTCAAGATGCCTCTGCC	60
Query	166	GACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTT	225
Sbjct	61	GACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTT	120

Query	226	CCAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261	
Sbjct	121	CCAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 156	

>[lcl|Amplicon 564 non-redundant amplicon of 4 matches](#)

Length=195

Score = 331 bits (366), Expect = 1e-92

Identities = 190/195 (97%), Gaps = 0/195 (0%)

Strand=Plus/Plus

Query	368	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAAGGCCATCGTTGAAGATGCCTCTGCCG	427
Sbjct	1	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAAGGCTATCATTCAAGATGCCTCTGCCG	60
Query	428	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTT	487
Sbjct	61	ACAGTGGTCCCAAAGATGGACCCCCACCCNCGAGGAGCATCGTGGAAAAGAACGTT	120

Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
|||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG 180  
Query 548 CACAATCCCACTATC 562  
|||||||  
Sbjct 181 CACAATCCCACTATC 195  
Score = 260 bits (288), Expect = 2e-71  
Identities = 150/154 (97%), Gaps = 0/154 (0%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
|||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATGCCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 226  
|||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCNCGAGGAGCATCGTGGAAAAAGAACGTTTC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGA 260  
|||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGA 154  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGA 260  
|||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGA 154  
>lcl|Amplicon\_174 non-redundant amplicon of 78 matches  
Length=194  
Score = 331 bits (366), Expect = 1e-92  
Identities = 191/195 (98%), Gaps = 1/195 (1%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
|||  
Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGC-TCTGCCG 59  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 487  
|||||||  
Sbjct 60 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 119  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
|||||||  
Sbjct 120 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 179  
Query 548 CACAATCCCACTATC 562  
|||||||  
Sbjct 180 CACAATCCCACTATC 194  
Score = 259 bits (286), Expect = 6e-71  
Identities = 151/155 (97%), Gaps = 1/155 (1%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
|||  
Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGC-TCTGCCG 59  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 226  
|||||||  
Sbjct 60 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 119  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
|||||||  
Sbjct 120 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 154  
>lcl|Amplicon\_615 non-redundant amplicon of 4 matches  
Length=195  
Score = 329 bits (364), Expect = 4e-92  
Identities = 190/195 (97%), Gaps = 0/195 (0%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
|||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATCCCTCTGCCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 487  
|||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 120  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
|||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG 180  
Query 548 CACAATCCCACTATC 562  
|||||||  
Sbjct 181 CACAATCCCACTATC 195  
Score = 260 bits (288), Expect = 2e-71

Sbjct 181 CACAATCCCACTATC 195  
Score = 260 bits (288), Expect = 2e-71  
Identities = 150/154 (97%), Gaps = 0/154 (0%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 226  
||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGA 260  
||||||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGA 154  
>[lcl|Amplicon 266 non-redundant amplicon of 178 matches](#)  
Length=195  
Score = 329 bits (364), Expect = 4e-92  
Identities = 190/195 (97%), Gaps = 0/195 (0%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTACCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 487  
||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAAACATCGTGGAAAAAGAACGTTC 120  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
||||||||||||||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
Query 548 CACAATCCCACTATC 562  
||||||||||||||||  
Sbjct 181 CACAATCCCACTATC 195  
Score = 257 bits (284), Expect = 2e-70  
Identities = 150/155 (97%), Gaps = 0/155 (0%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
||||||||||||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTACCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 226  
||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAAACATCGTGGAAAAAGAACGTTC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 155  
>[lcl|Amplicon 42 non-redundant amplicon of 18 matches](#) Length=195  
Score = 329 bits (364), Expect = 4e-92  
Identities = 190/195 (97%), Gaps = 0/195 (0%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
||||||||||||||||||||||||||||||||  
Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
||||||||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTGCCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 487  
||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTCC 120  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG 180  
Query 548 CACAATCCCACTATC 562  
||||||||||||||||  
Sbjct 181 CACAATCCCACTATC 195  
Score = 260 bits (288), Expect = 2e-71  
Identities = 150/154 (97%), Gaps = 0/154 (0%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
||||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 226  
||||||||||||||||||||||||||||

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTCC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGA 260  
|||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGA 154  
>lcl|Amplicon 358 non-redundant amplicon of 12 matches  
Length=192  
Score = 327 bits (362), Expect = 1e-91  
Identities = 192/195 (98%), Gaps = 3/195 (2%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
|||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCAT-GTTGAAGATGCCTCTGCCG 59  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 487  
|||||||  
Sbjct 60 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCAT-GTGGAAAAGAAGACGTTC 118  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
|||||||  
Sbjct 119 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCT-CACTGACGTAAGGGATGACG 177  
Query 548 CACAATCCCAC TAC 562  
|||||||  
Sbjct 178 CACAATCCCAC TAC 192  
Score = 264 bits (292), Expect = 1e-72  
Identities = 153/155 (99%), Gaps = 2/155 (1%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
|||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCAT-GTTGAAGATGCCTCTGCCG 59  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226  
|||||||  
Sbjct 60 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCAT-GTGGAAAAGAAGACGTTC 118 Query  
167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226  
|||||||  
Sbjct 60 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCAT-GTGGAAAAGAAGACGTTC 118  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
|||||||  
Sbjct 119 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 153  
>lcl|Amplicon 503 non-redundant amplicon of 2 matches Length=196  
Score = 327 bits (362), Expect = 1e-91  
Identities = 191/196 (97%), Gaps = 1/196 (1%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
|| |||||||  
Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGGAAAAAGAAGACGTTC 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 487  
|||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGG-ATGAC 546  
|||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 180  
Query 547 GCACAATCCCAC TAC 562  
|||||||  
Sbjct 181 GCACAATCCCAC TAC 196  
Score = 262 bits (290), Expect = 5e-72  
Identities = 151/155 (97%), Gaps = 0/155 (0%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
|| |||||||  
Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGGAAAAAGAAGACGTTC 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226  
|||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
|||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 155  
>lcl|Amplicon 166 non-redundant amplicon of 44 matches  
Length=195  
Score = 327 bits (362), Expect = 1e-91

Identities = 187/191 (98%), Gaps = 0/191 (0%)

Strand=Plus/Plus

Query	372	CTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCGACAG	431
Sbjct	5	CTACAAATGCCATCATTGCGATAAAGGAAAGGCATCGTTCAAGATGCCTCTGCCGACAG	64
Query	432	TGGTCCCAAAGATGGACCCCACCCACGAGGAGCATCGGGAAAAGAACGACGTCCAAC	491
Sbjct	65	TGGTCCCAAAGATGGACCCCACCCACGAGGAGCATCGGGAAAAGAACGACGTCCAAC	124
Query	492	CACGTCTTCAAAGCAAGTGGATTGATGTGATACTCCACTGACGTAAGGGATGACGCACA	551
Sbjct	125	CACGTCTTCAAAGCAAGTGGATTGATGTGATACTCCACTGACGTAAGGGATGACGCACA	184
Query	552	ATCCCCACTATC 562	
Sbjct	125	CACGTCTTCAAAGCAAGTGGATTGATGTGATACTCCACTGACGTAAGGGATGACGCACA	184
Query	552	ATCCCCACTATC 562	

Sbjct 185 ATCCCCACTATC 195

Score = 264 bits (292), Expect = 1e-72

Identities = 149/151 (99%), Gaps = 0/151 (0%)

Strand=Plus/Plus

Query	111	CTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCGACAG	170
Sbjct	5	CTACAAATGCCATCATTGCGATAAAGGAAAGGCATCGTTCAAGATGCCTCTGCCGACAG	64
Query	171	TGGTCCCAAAGATGGACCCCACCCACGAGGAGCATCGGGAAAAGAACGACGTCCAAC	230
Sbjct	65	TGGTCCCAAAGATGGACCCCACCCACGAGGAGCATCGGGAAAAGAACGACGTCCAAC	124
Query	231	CACGTCTTCAAAGCAAGTGGATTGATGTGAT 261	
Sbjct	125	CACGTCTTCAAAGCAAGTGGATTGATGTGAT 155	

>[lcl|Amplicon 18 non-redundant amplicon of 166 matches](#)

Length=195

Score = 327 bits (362), Expect = 1e-91

Identities = 187/191 (98%), Gaps = 0/191 (0%)

Strand=Plus/Plus

Query	368	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG	427
Sbjct	1	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCATCGTTCAAGATGCCTCTGCCG	60
Query	428	ACAGTGGTCCCAAAGATGGACCCCACCCACGAGGAGCATCGGGAAAAGAACGCTTC	487
Sbjct	61	ACAGTGGTCCCAAAGATGGACCCCACCCACGAGGAGCATCGGGAAAAGAACGCTTC	120
Query	488	CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	547
Sbjct	121	CAACCACGTCTTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG	180
Query	548	CACAATCCAC 558	

Sbjct 181 CACAATCCAC 191

Score = 264 bits (292), Expect = 1e-72

Identities = 151/154 (98%), Gaps = 0/154 (0%)

Strand=Plus/Plus

Query	107	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG	166
Sbjct	1	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCATCGTTCAAGATGCCTCTGCCG	60
Query	167	ACAGTGGTCCCAAAGATGGACCCCACCCACGAGGAGCATCGGGAAAAGAACGCTTC	226
Sbjct	61	ACAGTGGTCCCAAAGATGGACCCCACCCACGAGGAGCATCGGGAAAAGAACGCTTC	120
Query	227	CAACCACGTCTTCAAAGCAAGTGGATTGATGTGA 260	
Sbjct	121	CAACCACGTCTTCAAAGCAAGTGGATTGATGTGA 154	

>[lcl|Amplicon 670 non-redundant amplicon of 2 matches](#) Length=195

Score = 325 bits (360), Expect = 5e-91

Identities = 190/195 (97%), Gaps = 1/195 (1%)

Length=195

Score = 325 bits (360), Expect = 5e-91

Identities = 190/195 (97%), Gaps = 1/195 (1%)

Strand=Plus/Plus

Query	369	CTCCTA-CAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG	427
Sbjct	1	CTCCTAGCAAATGCCATCATTGCGATAAAGGAAAGGCATCGTTCAAGATGCCTCTGCCG	60

Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 487  
 |||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 120  
 Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 |||||||  
 Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG 180  
 Query 548 CACAATCCCAC T A T C 562  
 |||||||  
 Sbjct 181 CACAATCCCAC T A T C 195  
 Score = 257 bits (284), Expect = 2e-70  
 Identities = 150/154 (97%), Gaps = 1/154 (1%)  
 Strand=Plus/Plus  
 Query 108 CTCCTA-CAAATGCCATATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
 |||||||  
 Sbjct 1 CTCCTAGCAAATGCCATATTGCGATAAAGGAAAGGCTATCATTCAAGATGCCTCTGCCG 60  
 Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 226  
 |||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 120  
 Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGA 260  
 |||||||  
 Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGA 154  
 >[lcl|Amplicon\\_465 non-redundant amplicon of 4 matches](#)  
 Length=195  
 Score = 325 bits (360), Expect = 5e-91  
 Identities = 189/195 (97%), Gaps = 0/195 (0%)  
 Strand=Plus/Plus  
 Query 368 GCTCCTACAAATGCCATATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
 |||||||  
 Sbjct 1 GCACCTACCAATGCCATATTGCGATAAAGGAAAGGCTATCGTTAAAGATGCCTCTGCCG 60  
 Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 487  
 |||||||  
 Sbjct 61 ACAGTGGTCTAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 120  
 Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG 547  
 |||||||  
 Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG 180  
 Query 548 CACAATCCCAC T A T C 562  
 |||||||  
 Sbjct 181 CACAATCCCAC T A T C 195  
 Score = 255 bits (282), Expect = 7e-70  
 Identities = 149/154 (97%), Gaps = 0/154 (0%)  
 Strand=Plus/Plus  
 Query 107 GCTCCTACAAATGCCATATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
 |||||||  
 Query 107 GCTCCTACAAATGCCATATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
 |||||||  
 Sbjct 1 GCACCTACCAATGCCATATTGCGATAAAGGAAAGGCTATCGTTAAAGATGCCTCTGCCG 60  
 Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 226  
 |||||||  
 Sbjct 61 ACAGTGGTCTAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 120  
 Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGA 260  
 |||||||  
 Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGA 154  
 >[lcl|Amplicon\\_245 non-redundant amplicon of 52 matches](#)  
 Length=197  
 Score = 325 bits (360), Expect = 5e-91  
 Identities = 191/197 (97%), Gaps = 2/197 (1%)  
 Strand=Plus/Plus  
 Query 368 GCTCCTACAAATGCCATATTGCGATAAAGGAAAGGCCATCGTTGAAGAT--GCCTCTGC 425  
 |||||||  
 Sbjct 1 GCTCCTACAAATGCCATATTGCGATAAAGGAAAGGCTATCATTCAAGATCTGCCCTG 60  
 Query 426 CGACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGT 485  
 |||||||  
 Sbjct 61 CGACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGT 120  
 Query 486 TCCAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGA 545  
 |||||||  
 Sbjct 121 TCCAACCACGTCTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGA 180  
 Query 546 CGCACAAATCCCAC T A T C 562  
 |||||||

Sbjct 181 CGCACAAATCCCACTATC 197  
Score = 257 bits (284), Expect = 2e-70  
Identities = 151/156 (97%), Gaps = 2/156 (1%)  
Strand=Plus/Plus

Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGAT--GCCTCTGC 164  
||||||||||||||||||||||||||||||||||| ||| ||| ||| ||| ||| |||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGAT--GCCTCTGC 60  
Query 165 CGACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAGAACGT 224  
||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 CGACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAGAACGT 120  
Query 225 TCCAACCACGTCTTCAAAGCAAGTGGATTGATGTGA 260  
||||||||||||||||||||||||||||||||||||||||  
Sbjct 121 TCCAACCACGTCTTCAAAGCAAGTGGATTGATGTGA 156  
>[lcl|Amplicon 138 non-redundant amplicon of 132 matches](#)

Length=195  
Score = 325 bits (360), Expect = 5e-91  
Identities = 189/195 (97%), Gaps = 0/195 (0%)  
Strand=Plus/Plus

Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||  
Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAGAACGTTC 487  
||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAGAACGTTC 120  
||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAGAACGTTC 120  
Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATACTCCACTGACGTAAGGGATGACG 180  
Query 548 CACAATCCCACTATC 562  
||||||||||||  
Sbjct 181 CACAATCCCACTATC 195  
Score = 262 bits (290), Expect = 5e-72  
Identities = 151/155 (97%), Gaps = 0/155 (0%)  
Strand=Plus/Plus

Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||  
Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAGAACGTTC 226  
||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAGAACGTTC 120  
Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261  
||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 155  
>[lcl|Amplicon 125 non-redundant amplicon of 742 matches](#)

Length=195  
Score = 325 bits (360), Expect = 5e-91  
Identities = 189/195 (97%), Gaps = 0/195 (0%)  
Strand=Plus/Plus

Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
||||||||||||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAGAACGTTC 487  
||||||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAGAACGTTC 120  
Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
||||||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG 180  
Query 548 CACAATCCCACTATC 562  
||||||||||||  
Sbjct 181 CACAATCCCACTATC 195  
Score = 255 bits (282), Expect = 7e-70  
Identities = 149/154 (97%), Gaps = 0/154 (0%)  
Strand=Plus/Plus

Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
||||||||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAGAACGTTC 226  
||||||||||||||||||||||||||||

||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCATCGTGGAAAAAGAACGTTTC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGA 260  
||||||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGA 154  
||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGA 154  
>lcl|Amplicon 714 non-redundant amplicon of 2 matches  
Length=195  
Score = 324 bits (358), Expect = 2e-90  
Identities = 188/194 (97%), Gaps = 0/194 (0%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATATTGCATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG 427  
||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATATTGCATAAAGGAAAGGCCATCGTGAAGATAAGCCTGCCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCATCGTGGAAAAAGAACGTTTC 487  
||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCATCGTGGAAAAAGAACGTTTC 120  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG 180  
Query 548 CACAATCCCACTAT 561  
||||||||||||  
Sbjct 181 CACAATCCCACTAT 194  
Score = 255 bits (282), Expect = 7e-70  
Identities = 149/154 (97%), Gaps = 0/154 (0%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATATTGCATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG 166  
||||||||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATATTGCATAAAGGAAAGGCCATCGTGAAGATAAGCCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCATCGTGGAAAAAGAACGTTTC 226  
||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCATCGTGGAAAAAGAACGTTTC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGA 260  
||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGA 154  
>lcl|Amplicon 630 non-redundant amplicon of 8 matches  
Length=195  
Score = 324 bits (358), Expect = 2e-90  
Identities = 188/194 (97%), Gaps = 0/194 (0%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATATTGCATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG 427  
||| ||||||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATATTGCATAAAGGAAAGGCCATCGTCAAGATGCCTCTACCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCATCGTGGAAAAAGAACGTTTC 487  
||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAAACATCGTGGAAAAAGAACGTTTC 120  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGAGATATCTCCACTGACGTAAGGGATGACG 180  
Query 548 CACAATCCCACTAT 561  
||||||||||||  
Sbjct 181 CACAATCCCACTAT 194  
Score = 253 bits (280), Expect = 2e-69  
Identities = 149/155 (96%), Gaps = 0/155 (0%)  
Score = 253 bits (280), Expect = 2e-69  
Identities = 149/155 (96%), Gaps = 0/155 (0%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATATTGCATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG 166  
||| ||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATATTGCATAAAGGAAAGGCCATCGTCAAGATGCCTCTACCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCATCGTGGAAAAAGAACGTTTC 226  
||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAAACATCGTGGAAAAAGAACGTTTC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGAGAT 155  
>lcl|Amplicon 598 non-redundant amplicon of 2 matches Length=195

Score = 324 bits (358), Expect = 2e-90  
 Identities = 188/194 (97%), Gaps = 0/194 (0%)  
 Strand=Plus/Plus

Query	368	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG	427
Sbjct	1	GCTTCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTACCG	60
Query	428	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC	487
Sbjct	61	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAAACATCGTGGAAAAAGAACGTTC	120
Query	488	CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	547
Sbjct	121	CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATTCCACTGACGTAAGGGATGACG	180
Query	548	CACAATCCCACACTAT	561
Sbjct	181	CACAATCCCACACTAT	194
Score =	257 bits (284),	Expect = 2e-70	
Identities =	150/155 (97%),	Gaps = 0/155 (0%)	
Strand=Plus/Plus			
Query	107	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG	166
Sbjct	1	GCTTCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTACCG	60
Query	167	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC	226
Sbjct	61	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAAACATCGTGGAAAAAGAACGTTC	120
Query	227	CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT	261
Sbjct	121	CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT	155
> <a href="#">lcl Amplicon 268 non-redundant amplicon of 190 matches</a>			
Length=196			
Score =	324 bits (358),	Expect = 2e-90	
Identities =	190/196 (97%),	Gaps = 1/196 (1%)	
Strand=Plus/Plus			
Query	368	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGA-TGCCTCTGCC	426
Sbjct	1	GCTTCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGAATGCCTCTACC	60
Query	368	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGA-TGCCTCTGCC	426
Sbjct	1	GCTTCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGAATGCCTCTACC	60
Query	427	GACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC	486
Sbjct	61	GACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAAACATCGTGGAAAAAGAACGTTC	120
Query	487	CCAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC	546
Sbjct	121	CCAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC	180
Query	547	GCACAATCCCACACTATC	562
Sbjct	181	GCACAATCCCACACTATC	196
Score =	251 bits (278),	Expect = 8e-69	
Identities =	150/156 (96%),	Gaps = 1/156 (1%)	
Strand=Plus/Plus			
Query	107	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGA-TGCCTCTGCC	165
Sbjct	1	GCTTCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGAATGCCTCTACC	60
Query	166	GACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC	225
Sbjct	61	GACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAAACATCGTGGAAAAAGAACGTTC	120
Query	226	CCAACCACGTCTCAAAGCAAGTGGATTGATGTGAT	261
Sbjct	121	CCAACCACGTCTCAAAGCAAGTGGATTGATGTGAT	156
> <a href="#">lcl Amplicon 468 non-redundant amplicon of 2 matches</a>			
Length=195			
Score =	322 bits (356),	Expect = 6e-90	
Identities =	187/193 (97%),	Gaps = 0/193 (0%)	
Strand=Plus/Plus			
Query	368	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG	427
Sbjct	1	GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGAATGCCTCTACCG	60
Query	428	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC	487

||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCATCGTGGAAAAAGAACGTTTC 120  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
||||||||||||||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG 180  
Query 548 CACAATCCCACTA 560  
||||||||||||  
Sbjct 181 CACAATCCCACTA 193  
Score = 255 bits (282), Expect = 7e-70  
Identities = 149/154 (97%), Gaps = 0/154 (0%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
||| |||||||||||||||||||||||||||||||||||||  
Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATGCCTCTACCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 226  
||||||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 120  
||||||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGA 260  
||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGA 154  
>[lcl|Amplicon 328 non-redundant amplicon of 18 matches](#)  
Length=194  
Score = 322 bits (356), Expect = 6e-90  
Identities = 189/195 (97%), Gaps = 1/195 (1%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
||| |||||||||||||||||||||||||||||||||  
Sbjct 1 GCACCTACAAATGCCATCATTGCGATAA-GGAAAGGCTATCGTTCAAGATGCCTCTGCCG 59  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 487  
|||||||||||||||||||||||||||||||||||  
Sbjct 60 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCTACGTGGAAAAAGAACGTTTC 119  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
||||||||||||||||||||||||||||||||  
Sbjct 120 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 179  
Query 548 CACAATCCCACTATC 562  
|||||||||||||||  
Sbjct 180 CACAATCCCACTATC 194  
Score = 250 bits (276), Expect = 3e-68  
Identities = 149/155 (96%), Gaps = 1/155 (1%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
||| |||||||||||||||||||||||||||||  
Sbjct 1 GCACCTACAAATGCCATCATTGCGATAA-GGAAAGGCTATCGTTCAAGATGCCTCTGCCG 59  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 226  
|||||||||||||||||||||||||||||||  
Sbjct 60 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCTACGTGGAAAAAGAACGTTTC 119  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
|||||||||||||||||||||||  
Sbjct 120 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 154  
>[lcl|Amplicon 740 non-redundant amplicon of 4 matches](#)  
Length=194  
Score = 322 bits (356), Expect = 6e-90  
Identities = 189/195 (97%), Gaps = 1/195 (1%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
||| |||||||||||||||||||||||||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGCCTCTCCCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 487  
|||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAACATCGTGGAAAAAGAACGTTTC 120  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
| |||||||||||||||||||||||||||||  
Sbjct 121 C-ACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 179  
Query 548 CACAATCCCACTATC 562  
|||||||||||||||  
Query 548 CACAATCCCACTATC 562

|||||||  
Sbjct 180 CACAATCCCTCTATC 194  
Score = 253 bits (280), Expect = 2e-69  
Identities = 150/155 (97%), Gaps = 1/155 (1%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
|||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 226  
|||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
|||||||  
Sbjct 121 C-ACCACGTCTCAAAGCAAGTGGATTGATGTGAT 154  
>[lcl|Amplicon 372 non-redundant amplicon of 6 matches](#) Length=195  
Score = 320 bits (354), Expect = 2e-89  
Identities = 188/195 (96%), Gaps = 0/195 (0%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
|||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATCTCTGCCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 487  
|||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
|||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG 180  
Query 548 CACAATCCCCTATC 562  
|||||||  
Sbjct 181 CACAATCCCCTATC 195  
Score = 251 bits (278), Expect = 8e-69  
Identities = 148/154 (96%), Gaps = 0/154 (0%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
|||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 226  
|||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 260  
|||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 154  
>[lcl|Amplicon 760 non-redundant amplicon of 2 matches](#) Length=196  
Score = 318 bits (352), Expect = 7e-89  
Identities = 189/196 (96%), Gaps = 1/196 (1%)  
Strand=Plus/Plus  
Score = 318 bits (352), Expect = 7e-89  
Identities = 189/196 (96%), Gaps = 1/196 (1%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
|||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATCTCTGCCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 487  
|||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 120  
Query 488 CAACCACGTCTC-AAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 546  
|||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGAC 180  
Query 547 GCACAATCCCCTATC 562  
|||||||  
Sbjct 181 GCACAATCCCCTATC 196  
Score = 250 bits (276), Expect = 3e-68  
Identities = 149/155 (96%), Gaps = 1/155 (1%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
|||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 226

||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCGAGGAGCATCGTGGAAAAAGAACGTTTC 120  
Query 227 CAACCACGTCTTC-AAAGCAAGTGGATTGATGTGA 260  
||||||||||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGA 155  
>lcl|Amplicon 751 non-redundant amplicon of 2 matches  
Length=195  
Score = 318 bits (352), Expect = 7e-89  
Identities = 187/194 (96%), Gaps = 0/194 (0%)  
Strand=Plus/Plus  
Query 369 CTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCGA 428  
||| ||||||||||||||||||||||||||||||||||  
Sbjct 2 CTCTTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATCTCTGCCGA 61  
Query 429 CAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTCC 488  
||||||||||||||||||||||||||||||||  
Sbjct 62 CAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTCC 121  
Query 489 AACACACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGC 548  
||||||||||||||||||||||||||||||||  
Sbjct 122 AACACACGTCTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACGC 181  
Query 549 ACAATCCCAC TAC 562  
||||||||||||  
Sbjct 182 ACAATCCCAC TAC 195  
Score = 250 bits (276), Expect = 3e-68  
Identities = 147/153 (96%), Gaps = 0/153 (0%)  
Strand=Plus/Plus  
Query 108 CTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCGA 167  
||| ||||||||||||||||||||||||||  
Sbjct 2 CTCTTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATCTCTGCCGA 61  
Query 108 CTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCGA 167  
||| ||||||||||||||||||||||  
Sbjct 2 CTCTTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATCTCTGCCGA 61  
Query 168 CAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTCC 227  
||||||||||||||||||||||||||||  
Sbjct 62 CAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTCC 121  
Query 228 AACACACGTCTCAAAGCAAGTGGATTGATGTGA 260  
||||||||||||||||  
Sbjct 122 AACACACGTCTCAAAGCAAGTGGATTGATGTGA 154  
>lcl|Amplicon 162 non-redundant amplicon of 20 matches  
Length=196  
Score = 318 bits (352), Expect = 7e-89  
Identities = 189/196 (96%), Gaps = 1/196 (1%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG 427  
||| ||||||||||||||||||||||  
Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATGCCTCTGCCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 487  
||||||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 120  
Query 488 AACACACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGG-ATGAC 546  
||||||||||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATACTCCACTGACGTAAGGGATGAC 180  
Query 547 GCACAATCCCAC TAC 562  
||||||||||||  
Sbjct 181 GCACAATCCCAC TAC 196  
Score = 262 bits (290), Expect = 5e-72  
Identities = 151/155 (97%), Gaps = 0/155 (0%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTGAAGATGCCTCTGCCG 166  
||| ||||||||||||||||||||||  
Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATGCCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 226  
||||||||||||||||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
||||||||||||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 155  
>lcl|Amplicon 317 non-redundant amplicon of 10 matches  
Length=196

Score = 318 bits (352), Expect = 7e-89  
 Identities = 189/196 (96%), Gaps = 1/196 (1%)  
 Strand=Plus/Plus

Query	368	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGA-TGCCTCTGCC	426
Sbjct	1	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGAATGCCTCTACC	60
Query	427	GACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTT	486
Sbjct	61	GACAGTGGTCCCAAAGATGTACCCCCACCCACGAGGAAACATCGTGGAAAAGAACGTT	120
Query	487	CCAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC	546
Sbjct	61	GACAGTGGTCCCAAAGATGTACCCCCACCCACGAGGAAACATCGTGGAAAAGAACGTT	120
Query	487	CCAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC	546
Sbjct	121	CCAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC	180
Query	547	GCACAATCCCACATTC 562	
Sbjct	181	GCACAATCCCACATTC 196	

Score = 246 bits (272), Expect = 4e-67  
 Identities = 149/156 (96%), Gaps = 1/156 (1%)  
 Strand=Plus/Plus

Query	107	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGA-TGCCTCTGCC	165
Sbjct	1	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGAATGCCTCTACC	60
Query	166	GACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTT	225
Sbjct	61	GACAGTGGTCCCAAAGATGTACCCCCACCCACGAGGAAACATCGTGGAAAAGAACGTT	120
Query	226	CCAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261	
Sbjct	121	CCAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 156	

>[lcl|Amplicon 459 non-redundant amplicon of 2 matches](#)

Length=195

Score = 316 bits (350), Expect = 2e-88  
 Identities = 187/195 (96%), Gaps = 0/195 (0%)  
 Strand=Plus/Plus

Query	368	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG	427
Sbjct	1	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAATGCCTCTGCCG	60
Query	428	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTT	487
Sbjct	61	ACAGTGGTCCCAAAGATGGATCCCCACCCACGAGGAGCATCGTGGAAAAGGAGACGTT	120
Query	488	CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC	547
Sbjct	121	CAACCACGTCTCAAAGCAAGTGGATTGATCTCACATCTCCACTGACGTAAGGGATGAC	180
Query	548	CACAATCCCACATTC 562	
Sbjct	181	CACAATCCCACATTC 195	

Score = 248 bits (274), Expect = 1e-67  
 Identities = 145/150 (97%), Gaps = 0/150 (0%)  
 Strand=Plus/Plus

Query	107	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG	166
Sbjct	1	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAATGCCTCTGCCG	60
Query	167	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTT	226
Sbjct	61	ACAGTGGTCCCAAAGATGGATCCCCACCCACGAGGAGCATCGTGGAAAAGGAGACGTT	120
Query	227	CAACCACGTCTCAAAGCAAGTGGATTGAT 256	
Sbjct	121	CAACCACGTCTCAAAGCAAGTGGATTGAT 150	

>[lcl|Amplicon 371 non-redundant amplicon of 6 matches](#)  
[lcl|Amplicon 371 non-redundant amplicon of 6 matches](#)

Length=196

Score = 316 bits (350), Expect = 2e-88  
 Identities = 190/196 (97%), Gaps = 3/196 (2%)  
 Strand=Plus/Plus

Query	368	GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG	427
Sbjct	1	GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGAATGCCTCTGCCG	60

Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 487  
||||| ||||| ||||| ||||| |||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 120  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCC-ACTGACGTAAGGGATGAC 546  
||||| ||||| ||||| ||||| ||||| |||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCTACTGACGTAAGGGATGAC 180  
Query 547 GCAC-AATCCC-ACTA 560  
||||| ||||| |||||  
Sbjct 181 GCACTAATCCTACTA 196  
Score = 266 bits (294), Expect = 4e-73  
Identities = 152/155 (98%), Gaps = 0/155 (0%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAATGCCATATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
||| ||||| ||||| ||||| ||||| ||||| |||||  
Sbjct 1 GCACCTACAATGCCATATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 226  
||||| ||||| ||||| ||||| ||||| |||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
||||| |||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 155  
>[lcl|Amplicon\\_766 non-redundant amplicon of 4 matches](#)  
Length=195  
Score = 315 bits (348), Expect = 8e-88  
Identities = 185/192 (96%), Gaps = 0/192 (0%)  
Strand=Plus/Plus  
Query 371 CCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCGACA 430  
||| ||||| ||||| ||||| ||||| |||||  
Sbjct 4 CCCACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATCTCTGCCGACA 63  
Query 431 GTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTCAA 490  
||||| ||||| ||||| ||||| |||||  
Sbjct 64 GTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTCAA 123  
Query 491 CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCTACTGACGTAAGGGATGACGCAC 550  
||||| ||||| ||||| |||||  
Sbjct 124 CCACGTCTCAAAGCAAGTGGATTGATGTGACATCTCCTACTGACGTAAGGGATGACGCAC 183  
Query 551 AATCCCAC TATC 562  
||||| |||||  
Sbjct 184 AATCCCAC TATC 195  
Score = 246 bits (272), Expect = 4e-67  
Identities = 145/151 (96%), Gaps = 0/151 (0%)  
Strand=Plus/Plus  
Score = 246 bits (272), Expect = 4e-67  
Identities = 145/151 (96%), Gaps = 0/151 (0%)  
Strand=Plus/Plus  
Query 110 CCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCGACA 169  
||| ||||| ||||| ||||| |||||  
Sbjct 4 CCCACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATCTCTGCCGACA 63  
Query 170 GTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTCAA 229  
||||| ||||| |||||  
Sbjct 64 GTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTCAA 123  
Query 230 CCACGTCTCAAAGCAAGTGGATTGATGTGA 260  
||||| |||||  
Sbjct 124 CCACGTCTCAAAGCAAGTGGATTGATGTGA 154  
>[lcl|Amplicon\\_289 non-redundant amplicon of 6 matches](#)  
Length=195  
Score = 313 bits (346), Expect = 3e-87  
Identities = 184/191 (96%), Gaps = 0/191 (0%)  
Strand=Plus/Plus  
Query 372 CTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCGACAG 431  
||||| ||||| ||||| ||||| |||||  
Sbjct 5 CTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATCTCTGCCGACAG 64  
Query 432 TGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTCAAAC 491  
||||| ||||| |||||  
Sbjct 65 TGGTCCCAAAGATGGACCCCCACCCACTAGGAGCATCGTGGAAAAAGAACGTTCAAAC 124  
Query 492 CACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCTACTGACGTAAGGGATGACGCACA 551  
||||| |||||  
Sbjct 125 CACGTCTCAAAGCAAGTGGATTGATGTGATATTCCACTGACGTAAGGGATGACGCACA 184  
Query 552 ATCCCAC TATC 562

|||||||  
Sbjct 185 ATCCCACTATC 195  
Score = 250 bits (276), Expect = 3e-68  
Identities = 146/151 (97%), Gaps = 0/151 (0%)  
Strand=Plus/Plus  
Query 111 CTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCGACAG 170  
|||||||  
Sbjct 5 CTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCGACAG 64  
Query 171 TGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAGAACGTCCAAC 230  
|||||||  
Sbjct 65 TGGTCCCAAAGATGGACCCCCACCCACTAGGAGCATCGTGAAAAGAACGTCCAAC 124  
Query 231 CACGTCTTCAAAGCAAGTGGATTGATGTGAT 261  
|||||||  
Sbjct 125 CACGTCTTCAAAGCAAGTGGATTGATGTGAT 155  
>lcl|Amplicon 780 non-redundant amplicon of 2 matches Length=198  
Score = 306 bits (338), Expect = 4e-85  
Identities = 188/198 (95%), Gaps = 3/198 (2%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
|||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCC--CCCACGA-GGAGCAGTCGTGAAAAGAACGT 484  
|||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCC--CCCACGA-GGAGCAGTCGTGAAAAGAACGT 484  
|||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCCACGAAGGAGCATCGTGAAAAGAACGT 120  
Query 485 TTCCAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATG 544  
|||||||  
Sbjct 121 TTCCAACCACGTCTTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATG 180  
Query 545 ACGCACAATCCCACTATC 562  
|||||||  
Sbjct 181 ACGCACAATCCCACTATC 198  
Score = 237 bits (262), Expect = 2e-64  
Identities = 148/157 (94%), Gaps = 3/157 (2%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
|||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCC--ACCCACG-AGGAGCAGTCGTGAAAAGAACGT 223  
|||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCCACGAAGGAGCATCGTGAAAAGAACGT 120  
Query 224 TTCCAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 260  
|||||||  
Sbjct 121 TTCCAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 157  
>lcl|Amplicon 758 non-redundant amplicon of 2 matches Length=196  
Score = 306 bits (338), Expect = 4e-85  
Identities = 186/196 (95%), Gaps = 1/196 (1%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
|||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCC-CACCCACGAGGAGCATCGTGAAAAGAACGT 486  
|||||||  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCCACGAAGGAGCATCGTGAAAAGAACGT 120  
Query 487 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 546  
|||||||  
Sbjct 121 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGAC 180  
Query 547 GCACAATCCCACTATC 562  
|||||||  
Sbjct 181 GCACAATCCCACTATC 196  
Score = 235 bits (260), Expect = 6e-64  
Identities = 146/155 (94%), Gaps = 1/155 (1%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
|||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60

Query 167 ACAGTGGTCCCAAAGATGGACCCC-CACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 225  
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 120  
 Query 226 CCAACCACGTCTCAAAGCAAGTGGATTGATGTGA 260  
           ||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 120  
 Query 226 CCAACCACGTCTCAAAGCAAGTGGATTGATGTGA 260  
           ||||||||||||||||||||||||||||||||  
 Sbjct 121 CCAACCACGTCTCAAAGCAAGTGGATTGATGTGA 155  
>lcl|Amplicon\_375 non-redundant amplicon of 6 matches Length=198  
Score = 289 bits (320), Expect = 3e-80  
Identities = 183/193 (95%), Gaps = 5/193 (3%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATATTGCATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
           ||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 1 GCTCCTACAAATGCCATATTGCATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 428 ACAGTGGTCCC-AAAGATGGACCCCCACCCACGAGGAGCATCGTGG-AAAAAGAAGACGT 485  
           |||||||||| |||||||| |||||||| |||||||| |||||||| ||||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGGANCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGT 120  
 Query 486 TCCA-CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACT-GACGTAAGGGAT 543  
           |||| |||||| |||||| |||||| |||||| |||| | ||| | ||||  
 Sbjct 121 TCCAACCCACGTCTCAAAGCAAGTGGATTGATGTGATATCTNCCCTGGNCGT-ANGGAT 179  
 Query 544 GACGCACAATCCC 556  
           |||||||||||  
 Sbjct 180 GACGCACAATCCC 192  
Score = 257 bits (284), Expect = 2e-70  
Identities = 154/158 (97%), Gaps = 3/158 (2%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATATTGCATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
           ||||||||||||||||||||||||||||||||||||||||  
 Sbjct 1 GCTCCTACAAATGCCATATTGCATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 167 ACAGTGGTCCC-AAAGATGGACCCCCACCCACGAGGAGCATCGTGG-AAAAAGAAGACGT 224  
           |||||||||| |||||||| |||||||| |||||||| ||||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGGANCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGT 120  
 Query 225 TCCA-CCACGTCTCAAAGCAAGTGGATTGATGTGAT 261  
           |||| |||||| |||||| |||||| |||||| ||||||  
 Sbjct 121 TCCAACCCACGTCTCAAAGCAAGTGGATTGATGTGAT 158  
>lcl|Amplicon\_576 non-redundant amplicon of 2 matches Length=212  
Score = 289 bits (320), Expect = 3e-80  
Identities = 189/212 (89%), Gaps = 17/212 (8%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATATTGCATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
           |||||||||||||||||||||||||||||||||||||||  
 Sbjct 1 GCTCCTACAAATGCCATATTGCATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 487  
           |||||||||| |||||||| |||||||| |||||||| ||||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 120  
 Query 488 CAACCACGTCTC-----AAAGCAAGTGGATTGATGTGATATCTCCAC 530  
           |||| |||||| |||||| |||||| |||||| |||||||||  
 Sbjct 121 CAACCACGTCTCAAAACCGGGTGGCAGGTAAGCAAGTGGATTGATGTGACATCTCCAC 180  
 Query 531 TGACGTAAGGGATGACGCACAATCCCACTATC 562  
           |||| |||||| |||||| |||||| |||||||||  
 Sbjct 181 TGACGTAAGGGATGACGCACAATCCCACTATC 212  
 Query 531 TGACGTAAGGGATGACGCACAATCCCACTATC 562  
           |||| |||||| |||||| |||||| |||||||||  
 Sbjct 181 TGACGTAAGGGATGACGCACAATCCCACTATC 212  
Score = 223 bits (246), Expect = 4e-60  
Identities = 131/136 (96%), Gaps = 0/136 (0%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATATTGCATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
           |||||||||||||||||||||||||||||||||||  
 Sbjct 1 GCTCCTACAAATGCCATATTGCATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 226  
           |||||||||| |||||||| |||||||| |||||||| ||||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 120  
 Query 227 CAACCACGTCTCAAA 242  
           |||| |||||||||  
 Sbjct 121 CAACCACGTCTCAAA 136

## &gt;lcl|Amplicon 489 non-redundant amplicon of 4 matches Length=235

Score = 286 bits (316), Expect = 4e-79

Identities = 158/158 (100%), Gaps = 0/158 (0%)

Strand=Plus/Plus

Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427

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

Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60

Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 487

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

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 120

Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATC 525

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

Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATC 158

Score = 280 bits (310), Expect = 2e-77

Identities = 155/155 (100%), Gaps = 0/155 (0%)

Strand=Plus/Plus

Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166

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

Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60

Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 226

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

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 120

Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 261

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

Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGAT 155

Score = 73.4 bits (80), Expect = 5e-15

Identities = 40/40 (100%), Gaps = 0/40 (0%)

Strand=Plus/Plus

Query 523 ATCTCCACTGACGTAAGGGATGACGCACAATCCCACTATC 562

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

Sbjct 196 ATCTCCACTGACGTAAGGGATGACGCACAATCCCACTATC 235

## &gt;lcl|Amplicon 131 non-redundant amplicon of 36 matches

Length=245

## &gt;lcl|Amplicon 131 non-redundant amplicon of 36 matches

Length=245

Score = 260 bits (288), Expect = 2e-71

Identities = 183/209 (88%), Gaps = 0/209 (0%)

Strand=Plus/Plus

Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427

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

Sbjct 1 GCTCCTACAAATGCCATCATTGTGATAAAGGAAAGGCTATCATTGAAGATGCCTCTACCT 60

Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 487

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

Sbjct 61 ATAGTGGTCCCAAAGATGGACCCCCACCCATGAGGAGCATGGTAGAAAAGAACGTTC 120

Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547

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

Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATCTCCACTGACGTAAGGGATGACG 180

Query 548 CACAATCCCACTATCCTCGCAAGACCT 576

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

Sbjct 181 TCAAATCCCACTATCCTTGCCAAGATCCT 209

Score = 226 bits (250), Expect = 3e-61

Identities = 142/153 (93%), Gaps = 0/153 (0%)

Strand=Plus/Plus

Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166

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

Sbjct 1 GCTCCTACAAATGCCATCATTGTGATAAAGGAAAGGCTATCATTGAAGATGCCTCTACCT 60

Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 226

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

Sbjct 61 ATAGTGGTCCCAAAGATGGACCCCCACCCATGAGGAGCATGGTAGAAAAGAACGTTC 120

Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTG 259

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

Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTG 153

## &gt;lcl|Amplicon 22 non-redundant amplicon of 18 matches

Length=195

Score = 257 bits (284), Expect = 2e-70

Identities = 174/195 (89%), Gaps = 0/195 (0%)

Strand=Plus/Plus

Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427

Sbjct 1 GCTCCTACAAATGCCATCATTGTGATAAAGGAAAGGCTATCATTGAAGATGCCTCTACCT 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 487  
  
Sbjct 61 ATAGTGGTCCCAAAGATGGACCCCCACCCATGAGGAGCATGGTAGAAAAGAACGATGTTC 120  
Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
  
Sbjct 121 CAACCATGTCTTCAAAGCAAGTGGATTGATGTGATGGATCCTCCAATGACGTCAAGGGATGACG 180  
Query 548 CACAATCCCAC TATC 562  
  
Sbjct 181 TCAAATCCCAC TATC 195  
Score = 226 bits (250), Expect = 3e-61  
Identities = 142/153 (93%), Gaps = 0/153 (0%)  
Strand=Plus/Plus  
Score = 226 bits (250), Expect = 3e-61  
Identities = 142/153 (93%), Gaps = 0/153 (0%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
  
Sbjct 1 GCTCCTACAAATGCCATCATTGTGATAAAGGAAAGGCTATCATTGAAGATGCCTCTACCT 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 226  
  
Sbjct 61 ATAGTGGTCCCAAAGATGGACCCCCACCCATGAGGAGCATGGTAGAAAAGAACGATGTTC 120  
Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTG 259  
  
Sbjct 121 CAACCATGTCTTCAAAGCAAGTGGATTGATGTG 153  
>[lcl|Amplicon 785 non-redundant amplicon of 2 matches](#)  
Length=190  
Score = 248 bits (274), Expect = 1e-67  
Identities = 176/195 (90%), Gaps = 5/195 (3%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATCATTGCATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
  
Sbjct 1 GCTTCTACAAATGCCATCATTGCATAAAAGAA-GGCTATCATTCAAGATCTCTGCCG 59  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 487  
  
Sbjct 60 ACAGTGGTCCAAAGAATGGACCCCCACCGAAGAGCAGCATCGTGGAAAAAGAACGTTTC 119  
Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
  
Sbjct 120 C-ACCACGTCTTC-AAGCAAGTGGATGATGTGACATCT-CACTGACGTAAGGACG 175  
Query 548 CACAATCCCAC TATC 562  
  
Sbjct 176 CACCAC TATC 190  
Score = 199 bits (220), Expect = 5e-53  
Identities = 139/154 (90%), Gaps = 3/154 (2%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
  
Sbjct 1 GCTTCTACAAATGCCATCATTGCATAAAAGAA-GGCTATCATTCAAGATCTCTGCCG 59  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 226  
  
Sbjct 60 ACAGTGGTCCAAAGAATGGACCCCCACCGAAGAGCAGCATCGTGGAAAAAGAACGTTTC 119  
Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTG 260  
  
Sbjct 120 C-ACCACGTCTTC-AAGCAAGTGGATGATGTG 151  
>[lcl|Amplicon 621 non-redundant amplicon of 10 matches](#)  
Length=170  
Score = 248 bits (274), Expect = 1e-67  
Identities = 170/195 (87%), Gaps = 25/195 (13%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATCATTGCATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
  
Sbjct 1 GCTCCTACAAATGCCATCATTGCATAAAGGAAAGGCCA-CGTTGAAGATGCCTCTGCCG 59  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 487  
  
Sbjct 1 GCTCCTACAAATGCCATCATTGCATAAAGGAAAGGCCA-CGTTGAAGATGCCTCTGCCG 59  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTTC 487

Sbjct 60 ACAGTGGTCCA--GATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAACGTTC 117  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
|||||||  
Sbjct 118 CAACCACGTCTCAAAG-----CCACTGACGTAAGGGATGACG 155  
Query 548 CACAATCCC ACTATC 562  
|||||||  
Sbjct 156 CACAATCCC ACTATC 170  
Score = 230 bits (254), Expect = 3e-62  
Identities = 135/138 (98%), Gaps = 3/138 (2%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
|||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCA-CGTTGAAGATGCCTCTGCCG 59  
Query 167 ACAGTGGTCCAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 226  
|||||||  
Sbjct 60 ACAGTGGTCCA--GATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 117  
Query 227 CAACCACGTCTCAAAGC 244  
|||||||  
Sbjct 118 CAACCACGTCTCAAAGC 135  
>[lcl|Amplicon\\_128 non-redundant amplicon of 54 matches](#)  
Length=195  
Score = 248 bits (274), Expect = 1e-67  
Identities = 172/195 (88%), Gaps = 0/195 (0%)  
Strand=Plus/Plus  
Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
|||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGTGATAAAGGAAAGGCTATCATTGAAGATGCCTCTACCT 60  
Query 428 ACAGTGGTCCAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 487  
| |||||  
Sbjct 61 ATAGTGGTCCAAGATGGACCCCCACCCATGAGGAGCATGGTAGAAAAGAACGTTC 120  
Query 488 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
|||||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTGATGGATCTCCAATGATGTCAAGGATGATG 180  
Query 548 CACAATCCC ACTATC 562  
|||||||  
Sbjct 181 TCAAATCCC ACTATC 195  
Score = 226 bits (250), Expect = 3e-61  
Identities = 142/153 (93%), Gaps = 0/153 (0%)  
Strand=Plus/Plus  
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
|||||||  
Sbjct 1 GCTCCTACAAATGCCATCATTGTGATAAAGGAAAGGCTATCATTGAAGATGCCTCTACCT 60  
Query 167 ACAGTGGTCCAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAGAACGTTC 226  
| |||||  
Sbjct 61 ATAGTGGTCCAAGATGGACCCCCACCCATGAGGAGCATGGTAGAAAAGAACGTTC 120  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTG 259  
| |||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTG 153  
Query 227 CAACCACGTCTCAAAGCAAGTGGATTGATGTG 259  
| |||||  
Sbjct 121 CAACCACGTCTCAAAGCAAGTGGATTGATGTG 153  
>[lcl|Amplicon\\_354 non-redundant amplicon of 5 matches](#) Length=170  
Score = 241 bits (266), Expect = 1e-65  
Identities = 133/133 (100%), Gaps = 0/133 (0%)  
Strand=Plus/Plus  
Query 54 CCATTGCCAGCTATCTGTCACTTATTGTGAAGATAGTGGAAAAGGAAGGTGGCTCTA 113  
|||||||  
Sbjct 38 CCATTGCCAGCTATCTGTCACTTATTGTGAAGATAGTGGAAAAGGAAGGTGGCTCTA 97  
Query 114 CAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCGACAGTGG 173  
|||||||  
Sbjct 98 CAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCGACAGTGG 157  
Query 174 TCCCAAAGATGGA 186  
|||||||  
Sbjct 158 TCCCAAAGATGGA 170  
Score = 241 bits (266), Expect = 1e-65  
Identities = 133/133 (100%), Gaps = 0/133 (0%)  
Strand=Plus/Plus  
Query 315 CCATTGCCAGCTATCTGTCACTTATTGTGAAGATAGTGGAAAAGGAAGGTGGCTCTA 374

Sbjct 38 CCATTGCCAGCTATCTGCACTTATTGTGAAGATACTGGAAAAGGAAGGTGGCTCCTA 97  
Query 375 CAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCGACAGTGG 434  
Sbjct 98 CAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCGACAGTGG 157  
Query 435 TCCCAAAGATGGA 447  
Sbjct 158 TCCCAAAGATGGA 170

>[lcl|Amplicon 36 non-redundant amplicon of 2906 matches](#)

Length=123

Score = 223 bits (246), Expect = 4e-60  
Identities = 123/123 (100%), Gaps = 0/123 (0%)  
Strand=Plus/Plus

Query 491 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 550  
Sbjct 1 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 60  
Query 551 AATCCCCTACTCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGA 610  
Sbjct 61 AATCCCCTACTCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGA 120  
Query 611 GGA 613  
|||

Sbjct 121 GGA 123

>[lcl|Amplicon 458 non-redundant amplicon of 11 matches](#)

Length=123

Score = 221 bits (244), Expect = 1e-59  
Identities = 122/122 (100%), Gaps = 0/122 (0%)  
Strand=Plus/Plus

Identities = 122/122 (100%), Gaps = 0/122 (0%)  
Strand=Plus/Plus

Query 492 CACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCACA 551  
Sbjct 2 CACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCACA 61  
Query 552 ATCCCCTACTCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGAG 611  
Sbjct 62 ATCCCCTACTCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGAG 121  
Query 612 GA 613  
||

Sbjct 122 GA 123

>[lcl|Amplicon 261 non-redundant amplicon of 16 matches](#)

Length=123

Score = 221 bits (244), Expect = 1e-59  
Identities = 122/122 (100%), Gaps = 0/122 (0%)  
Strand=Plus/Plus

Query 491 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 550  
Sbjct 1 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 60  
Query 551 AATCCCCTACTCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGA 610  
Sbjct 61 AATCCCCTACTCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGA 120  
Query 611 GG 612  
||

Sbjct 121 GG 122

>[lcl|Amplicon 119 non-redundant amplicon of 56 matches](#)

Length=122

Score = 221 bits (244), Expect = 1e-59  
Identities = 122/122 (100%), Gaps = 0/122 (0%)  
Strand=Plus/Plus

Query 491 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 550  
Sbjct 1 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 60  
Query 551 AATCCCCTACTCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGA 610  
Sbjct 61 AATCCCCTACTCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGA 120  
Query 611 GG 612  
||

Sbjct 121 GG 122

>[lcl|Amplicon 249 non-redundant amplicon of 392 matches](#)

Length=123

Score = 221 bits (244), Expect = 1e-59

Identities = 122/122 (100%), Gaps = 0/122 (0%)

Strand=Plus/Plus

Query	491	CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC	550
Sbjct	1	CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC	60
Query	551	AATCCC ACTATCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGA	610
Sbjct	61	AATCCC ACTATCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGA	120
551	AATCCC ACTATCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGA	610	
Sbjct	61	AATCCC ACTATCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGA	120
Query	611	GG 612	
Sbjct	121	GG 122	

>[lcl|Amplicon 178 non-redundant amplicon of 69 matches](#)

Length=123

Score = 221 bits (244), Expect = 1e-59

Identities = 122/122 (100%), Gaps = 0/122 (0%)

Strand=Plus/Plus

Query	491	CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC	550
Sbjct	1	CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC	60
Query	551	AATCCC ACTATCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGA	610
Sbjct	61	AATCCC ACTATCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGA	120
Query	611	GG 612	
Sbjct	121	GG 122	

>[lcl|Amplicon 712 non-redundant amplicon of 1 matches](#) Length=123

Score = 219 bits (242), Expect = 5e-59

Identities = 121/121 (100%), Gaps = 0/121 (0%)

Strand=Plus/Plus

Query	493	ACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCACAA	552
Sbjct	3	ACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCACAA	62
Query	553	TCCC ACTATCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGAGG	612
Sbjct	63	TCCC ACTATCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGAGG	122
Query	613	A 613	
Sbjct	123	A 123	

>[lcl|Amplicon 484 non-redundant amplicon of 1 matches](#)

Length=123

Score = 219 bits (242), Expect = 5e-59

Identities = 121/121 (100%), Gaps = 0/121 (0%)

Strand=Plus/Plus

Query	491	CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC	550
Sbjct	1	CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC	60
Query	551	AATCCC ACTATCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGA	610
Sbjct	61	AATCCC ACTATCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGA	120
Query	611	G 611	
Sbjct	121	G 121	

>[lcl|Amplicon\\_226 non-redundant amplicon of 5 matches](#)

Sbjct 121 G 121

>[lcl|Amplicon 226 non-redundant amplicon of 5 matches](#)

Length=123

Score = 219 bits (242), Expect = 5e-59

Identities = 121/121 (100%), Gaps = 0/121 (0%)

Strand=Plus/Plus

Query	491	CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC	550
Sbjct	1	CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC	60
Query	551	AATCCC ACTATCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGA	610
Sbjct	61	AATCCC ACTATCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTCATTGGAGA	120

Query 611 G 611  
|  
Sbjct 121 G 121  
>[lcl|Amplicon 48 non-redundant amplicon of 966 matches](#)  
Length=123  
Score = 219 bits (242), Expect = 5e-59  
Identities = 121/121 (100%), Gaps = 0/121 (0%)  
Strand=Plus/Plus  
Query 491 CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 550  
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 60  
Query 551 AATCCCCTACTCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTGAGA 610  
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 AATCCCCTACTCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTGAGA 120  
Query 611 G 611  
|  
Sbjct 121 G 121  
>[lcl|Amplicon 442 non-redundant amplicon of 2 matches](#) Length=123  
Score = 217 bits (240), Expect = 2e-58  
Identities = 122/123 (99%), Gaps = 0/123 (0%)  
Strand=Plus/Plus  
Query 491 CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 550  
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 60  
Query 551 AATCCCCTACTCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTGAGA 610  
||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 AATCCCCTACTCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTGAGA 120  
Query 611 GGA 613  
|||  
Sbjct 121 GGA 123  
>[lcl|Amplicon 724 non-redundant amplicon of 1 matches](#) Length=123  
Score = 217 bits (240), Expect = 2e-58  
Identities = 122/123 (99%), Gaps = 0/123 (0%)  
Strand=Plus/Plus  
Query 491 CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 550  
Identities = 122/123 (99%), Gaps = 0/123 (0%) Strand=Plus/Plus  
Query 491 CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 550  
||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 60  
Query 551 AATCCCCTACTCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTGAGA 610  
||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 AATCCCCTACTCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTGAGA 120  
Query 611 GGA 613  
|||  
Sbjct 121 GGA 123  
>[lcl|Amplicon 681 non-redundant amplicon of 2 matches](#) Length=123  
Score = 217 bits (240), Expect = 2e-58  
Identities = 122/123 (99%), Gaps = 0/123 (0%)  
Strand=Plus/Plus  
Query 491 CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 550  
||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 CCACGTCTTAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 60  
Query 551 AATCCCCTACTCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTGAGA 610  
||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 AATCCCCTACTCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTGAGA 120  
Query 611 GGA 613  
|||  
Sbjct 121 GGA 123  
>[lcl|Amplicon 678 non-redundant amplicon of 1 matches](#)  
Length=123  
Score = 217 bits (240), Expect = 2e-58  
Identities = 122/123 (99%), Gaps = 0/123 (0%)  
Strand=Plus/Plus  
Query 491 CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 550  
||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 CCACGTCTTAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 60  
Query 551 AATCCCCTACTCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTGAGA 610  
||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 AATCCCCTACTCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTGAGA 120  
Query 611 GGA 613  
|||

Query 611 GGA 613  
   |||  
 Sbjct 121 GGA 123  
>lcl|Amplicon\_594 non-redundant amplicon of 1 matches  
Length=123  
Score = 217 bits (240), Expect = 2e-58  
Identities = 122/123 (99%), Gaps = 0/123 (0%)  
Strand=Plus/Plus  
Query 491 CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 550  
  |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCTC 60  
Query 551 AATCCCCTACTATCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTGAGA 610  
  |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 AATCCCCTACTATCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTGAGA 120  
Query 551 AATCCCCTACTATCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTGAGA 610  
  |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 AATCCCCTACTATCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTGAGA 120  
Query 611 GGA 613  
  |||  
Sbjct 121 GGA 123  
>lcl|Amplicon\_79 non-redundant amplicon of 3 matches Length=123  
Score = 217 bits (240), Expect = 2e-58  
Identities = 122/123 (99%), Gaps = 0/123 (0%)  
Strand=Plus/Plus  
Query 491 CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 550  
  |||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 CCACGTCTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 60  
Query 551 AATCCCCTACTATCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTGAGA 610  
  |||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 AATCCCCTACTATCCTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTGAGA 120  
Query 611 GGA 613  
  |||  
Sbjct 121 GGA 123  
Lambda K H  
0.634 0.408 0.912  
Gapped  
Lambda K H  
0.625 0.410 0.780  
Effective search space used: 58010040

**Query= pmas\_Arabidopsis\_thaliana\_-X68599.1**

Length=397  
\*\*\*\*\* No hits found \*\*\*\*\*  
Lambda K H  
0.634 0.408 0.912  
Gapped  
Lambda K H  
0.625 0.410 0.780

Effective search space used: 36915480

**Query= pMTL\_(p-MT)\_Zea\_mays\_-S57628.1**

Length=1859  
\*\*\*\*\* No hits found \*\*\*\*\*  
\*\*\*\*\* No hits found \*\*\*\*\*  
Lambda K H  
0.634 0.408 0.912  
Gapped  
Lambda K H  
0.625 0.410 0.780  
Effective search space used: 176378156

**Query= pNOS\_Agrobacterium\_tumefaciens\_-V00087.1**

Length=2521

Sequences producing significant alignments:

lcl|Amplicon\_4 non-redundant amplicon of 24874 matches  
lcl|Amplicon\_223 non-redundant amplicon of 24 matches  
lcl|Amplicon\_749 non-redundant amplicon of 4 matches  
lcl|Amplicon\_653 non-redundant amplicon of 2 matches  
lcl|Amplicon\_626 non-redundant amplicon of 2 matches

Score (Bits)	E Value
<u>325</u>	2e-90
<u>322</u>	2e-89
<u>320</u>	8e-89
<u>320</u>	8e-89
<u>320</u>	8e-89

lcl Amplicon_391	non-redundant amplicon of 10 matches	<u>320</u>	8e-89
lcl Amplicon_264	non-redundant amplicon of 80 matches	<u>320</u>	8e-89
lcl Amplicon_613	non-redundant amplicon of 4 matches	<u>320</u>	8e-89
lcl Amplicon_518	non-redundant amplicon of 2 matches	<u>320</u>	8e-89
lcl Amplicon_508	non-redundant amplicon of 4 matches	<u>320</u>	8e-89
lcl Amplicon_507	non-redundant amplicon of 4 matches	<u>320</u>	8e-89
lcl Amplicon_416	non-redundant amplicon of 6 matches	<u>320</u>	8e-89
lcl Amplicon_409	non-redundant amplicon of 16 matches	<u>320</u>	8e-89
lcl Amplicon_396	non-redundant amplicon of 12 matches	<u>320</u>	8e-89
lcl Amplicon_227	non-redundant amplicon of 16 matches	<u>320</u>	8e-89
lcl Amplicon_403	non-redundant amplicon of 96 matches	<u>320</u>	8e-89
lcl Amplicon_52	non-redundant amplicon of 218 matches	<u>320</u>	8e-89
lcl Amplicon_419	non-redundant amplicon of 14 matches	<u>320</u>	8e-89
lcl Amplicon_27	non-redundant amplicon of 324 matches	<u>320</u>	8e-89
lcl Amplicon_525	non-redundant amplicon of 8 matches	<u>318</u>	3e-88
lcl Amplicon_646	non-redundant amplicon of 4 matches	<u>316</u>	1e-87
lcl Amplicon_607	non-redundant amplicon of 10 matches	<u>316</u>	1e-87
lcl Amplicon_499	non-redundant amplicon of 38 matches	<u>316</u>	1e-87
lcl Amplicon_473	non-redundant amplicon of 2 matches	<u>316</u>	1e-87
lcl Amplicon_284	non-redundant amplicon of 12 matches	<u>316</u>	1e-87
lcl Amplicon_425	non-redundant amplicon of 24 matches	<u>316</u>	1e-87
lcl Amplicon_37	non-redundant amplicon of 98 matches	<u>316</u>	1e-87
lcl Amplicon_76	non-redundant amplicon of 14 matches	<u>316</u>	1e-87
lcl Amplicon_329	non-redundant amplicon of 18 matches	<u>315</u>	3e-87
lcl Amplicon_578	non-redundant amplicon of 2 matches	<u>311</u>	4e-86
lcl Amplicon_521	non-redundant amplicon of 4 matches	<u>311</u>	4e-86
lcl Amplicon_269	non-redundant amplicon of 34 matches	<u>309</u>	1e-85
lcl Amplicon_310	non-redundant amplicon of 26 matches	<u>298</u>	3e-82
lcl Amplicon_94	non-redundant amplicon of 12 matches	<u>275</u>	3e-75
lcl Amplicon_320	non-redundant amplicon of 22 matches	<u>248</u>	4e-67
lcl Amplicon_0	non-redundant amplicon of 12684 matches	<u>214</u>	9e-57
lcl Amplicon_648	non-redundant amplicon of 4 matches	<u>210</u>	1e-55
lcl Amplicon_224	non-redundant amplicon of 12 matches	<u>210</u>	1e-55
lcl Amplicon_614	non-redundant amplicon of 2 matches	<u>208</u>	4e-55
lcl Amplicon_519	non-redundant amplicon of 1 matches	<u>208</u>	4e-55
lcl Amplicon_272	non-redundant amplicon of 5 matches	<u>208</u>	4e-55
lcl Amplicon_417	non-redundant amplicon of 3 matches	<u>208</u>	4e-55
lcl Amplicon_228	non-redundant amplicon of 8 matches	<u>208</u>	4e-55
lcl Amplicon_397	non-redundant amplicon of 6 matches	<u>208</u>	4e-55
lcl Amplicon_426	non-redundant amplicon of 12 matches	<u>208</u>	4e-55
lcl Amplicon_404	non-redundant amplicon of 48 matches	<u>208</u>	4e-55
lcl Amplicon_53	non-redundant amplicon of 109 matches	<u>208</u>	4e-55
lcl Amplicon_397	non-redundant amplicon of 6 matches	<u>208</u>	4e-55
lcl Amplicon_426	non-redundant amplicon of 12 matches	<u>208</u>	4e-55
lcl Amplicon_404	non-redundant amplicon of 48 matches	<u>208</u>	4e-55
lcl Amplicon_53	non-redundant amplicon of 109 matches	<u>208</u>	4e-55
lcl Amplicon_526	non-redundant amplicon of 4 matches	<u>206</u>	1e-54
lcl Amplicon_389	non-redundant amplicon of 5 matches	<u>206</u>	1e-54
lcl Amplicon_77	non-redundant amplicon of 7 matches	<u>206</u>	1e-54
lcl Amplicon_654	non-redundant amplicon of 2 matches	<u>205</u>	4e-54
lcl Amplicon_608	non-redundant amplicon of 5 matches	<u>205</u>	4e-54
lcl Amplicon_285	non-redundant amplicon of 6 matches	<u>205</u>	4e-54
lcl Amplicon_38	non-redundant amplicon of 43 matches	<u>205</u>	4e-54
lcl Amplicon_311	non-redundant amplicon of 10 matches	<u>205</u>	4e-54
lcl Amplicon_56	non-redundant amplicon of 3 matches	<u>203</u>	2e-53
lcl Amplicon_522	non-redundant amplicon of 2 matches	<u>199</u>	2e-52
lcl Amplicon_270	non-redundant amplicon of 17 matches	<u>199</u>	2e-52
lcl Amplicon_336	non-redundant amplicon of 3 matches	<u>190</u>	1e-49
lcl Amplicon_493	non-redundant amplicon of 1 matches	<u>188</u>	3e-49
lcl Amplicon_582	non-redundant amplicon of 1 matches	<u>183</u>	1e-47
lcl Amplicon_3	non-redundant amplicon of 2803 matches	<u>170</u>	9e-44
lcl Amplicon_575	non-redundant amplicon of 7 matches	<u>165</u>	4e-42
lcl Amplicon_299	non-redundant amplicon of 3 matches	<u>165</u>	4e-42
lcl Amplicon_652	non-redundant amplicon of 6 matches	<u>161</u>	5e-41
lcl Amplicon_1	non-redundant amplicon of 25856 matches	<u>152</u>	2e-38
lcl Amplicon_229	non-redundant amplicon of 16 matches	<u>150</u>	9e-38
lcl Amplicon_750	non-redundant amplicon of 4 matches	<u>147</u>	1e-36
lcl Amplicon_520	non-redundant amplicon of 2 matches	<u>147</u>	1e-36
lcl Amplicon_398	non-redundant amplicon of 12 matches	<u>147</u>	1e-36
lcl Amplicon_427	non-redundant amplicon of 24 matches	<u>147</u>	1e-36
lcl Amplicon_405	non-redundant amplicon of 96 matches	<u>147</u>	1e-36

lcl Amplicon_527	non-redundant amplicon of 8 matches	<a href="#">143</a>	1e-35
lcl Amplicon_474	non-redundant amplicon of 2 matches	<a href="#">143</a>	1e-35
lcl Amplicon_337	non-redundant amplicon of 10 matches	<a href="#">143</a>	1e-35
lcl Amplicon_39	non-redundant amplicon of 98 matches	<a href="#">143</a>	1e-35
lcl Amplicon_488	non-redundant amplicon of 2 matches	<a href="#">140</a>	2e-34
lcl Amplicon_523	non-redundant amplicon of 4 matches	<a href="#">138</a>	5e-34
lcl Amplicon_494	non-redundant amplicon of 2 matches	<a href="#">131</a>	8e-32
lcl Amplicon_589	non-redundant amplicon of 2 matches	<a href="#">127</a>	1e-30
lcl Amplicon_2	non-redundant amplicon of 12842 matches	<a href="#">125</a>	3e-30
lcl Amplicon_95	non-redundant amplicon of 18 matches	<a href="#">122</a>	4e-29
lcl Amplicon_225	non-redundant amplicon of 12 matches	<a href="#">122</a>	4e-29
lcl Amplicon_655	non-redundant amplicon of 2 matches	<a href="#">120</a>	1e-28
lcl Amplicon_609	non-redundant amplicon of 5 matches	<a href="#">120</a>	1e-28
lcl Amplicon_475	non-redundant amplicon of 1 matches	<a href="#">120</a>	1e-28
lcl Amplicon_418	non-redundant amplicon of 3 matches	<a href="#">120</a>	1e-28
lcl Amplicon_230	non-redundant amplicon of 8 matches	<a href="#">120</a>	1e-28
lcl Amplicon_406	non-redundant amplicon of 48 matches	<a href="#">120</a>	1e-28
lcl Amplicon_399	non-redundant amplicon of 6 matches	<a href="#">120</a>	1e-28
lcl Amplicon_54	non-redundant amplicon of 120 matches	<a href="#">120</a>	1e-28
lcl Amplicon_420	non-redundant amplicon of 7 matches	<a href="#">120</a>	1e-28
lcl Amplicon_528	non-redundant amplicon of 4 matches	<a href="#">118</a>	5e-28
lcl Amplicon_110	non-redundant amplicon of 88 matches	<a href="#">118</a>	5e-28
lcl Amplicon_390	non-redundant amplicon of 5 matches	<a href="#">116</a>	2e-27
lcl Amplicon_271	non-redundant amplicon of 17 matches	<a href="#">113</a>	2e-26
lcl Amplicon_115	non-redundant amplicon of 13 matches	<a href="#">111</a>	8e-26
lcl Amplicon_88	non-redundant amplicon of 11 matches	<a href="#">86.0</a>	3e-18
lcl Amplicon_156	non-redundant amplicon of 30 matches	<a href="#">84.2</a>	1e-17
lcl Amplicon_265	non-redundant amplicon of 12 matches	<a href="#">82.4</a>	4e-17
lcl Amplicon_199	non-redundant amplicon of 4 matches	<a href="#">78.8</a>	4e-16
lcl Amplicon_193	non-redundant amplicon of 5 matches	<a href="#">71.6</a>	7e-14
lcl Amplicon_189	non-redundant amplicon of 10 matches	<a href="#">71.6</a>	7e-14
lcl Amplicon_191	non-redundant amplicon of 5 matches	<a href="#">71.6</a>	7e-14
lcl Amplicon_187	non-redundant amplicon of 14 matches	<a href="#">69.8</a>	2e-13
lcl Amplicon_192	non-redundant amplicon of 5 matches	<a href="#">66.2</a>	3e-12
lcl Amplicon_188	non-redundant amplicon of 5 matches	<a href="#">66.2</a>	3e-12
lcl Amplicon_190	non-redundant amplicon of 5 matches	<a href="#">64.4</a>	1e-11
lcl Amplicon_157	non-redundant amplicon of 10 matches	<a href="#">64.4</a>	1e-11
lcl Amplicon_197	non-redundant amplicon of 12 matches	<a href="#">62.6</a>	3e-11
lcl Amplicon_180	non-redundant amplicon of 22 matches	<a href="#">62.6</a>	3e-11
> <a href="#">lcl Amplicon_4 non-redundant amplicon of 24874 matches</a>			
lcl Amplicon_180	non-redundant amplicon of 22 matches	<a href="#">62.6</a>	3e-11
> <a href="#">lcl Amplicon_4 non-redundant amplicon of 24874 matches</a>			

Length=180

Score = 325 bits (360), Expect = 2e-90  
 Identities = 180/180 (100%), Gaps = 0/180 (0%)

Strand=Plus/Plus

Query 1885	GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAGCA	1944
Sbjct 1	GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAGCA	60
Query 1945	TGTAATAATTAAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTATGATTAGAGT	2004
Sbjct 61	TGTAATAATTAAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTATGATTAGAGT	120
Query 2005	CCCGCAATTATACATTAAATACGCGATAGAAAACAAATAGCGCGCAAATAGGATAA	2064
Sbjct 121	CCCGCAATTATACATTAAATACGCGATAGAAAACAAATAGCGCGCAAATAGGATAA	180

>[lcl|Amplicon\\_223 non-redundant amplicon of 24 matches](#)

Length=180

Score = 322 bits (356), Expect = 2e-89  
 Identities = 179/180 (99%), Gaps = 0/180 (0%)

Strand=Plus/Plus

Query 1885	GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAGCA	1944
Sbjct 1	GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAGCA	60
Query 1945	TGTAATAATTAAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTATGATTAGAGT	2004
Sbjct 61	TGTAATAATTAAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTATGATTAGAGT	120
Query 2005	CCCGCAATTATACATTAAATACGCGATAGAAAACAAATAGCGCGCAAATAGGATAA	2064
Sbjct 121	CCCGCAATTATACATTAAATACGCGATAGAAAACAAATAGCGCGCAAATAGGATAA	180

>[lcl|Amplicon\\_749 non-redundant amplicon of 4 matches](#)

Length=180

Score = 320 bits (354), Expect = 8e-89  
Identities = 179/180 (99%), Gaps = 0/180 (0%)  
Strand=Plus/Plus

Query 1885 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAGCA 1944  
|||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAGCA 60  
Query 1945 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 2004  
|||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct 61 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 120  
Query 2005 CCCGCAATTATACATTAAACATGCGATAGAAAACAAAATAGCGCGCAAACCTAGGATAA 2064  
|||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct 121 CCCGCAATTATACATTAAACATGCGATAGAAAACAAAATAGCGCGCAAACCTAGGATAA 180  
>lcl|Amplicon 653 non-redundant amplicon of 2 matches Length=180

Score = 320 bits (354), Expect = 8e-89  
Identities = 179/180 (99%), Gaps = 0/180 (0%)  
Strand=Plus/Plus

Query 1885 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAGCA 1944  
Identities = 179/180 (99%), Gaps = 0/180 (0%) Strand=Plus/Plus

Query 1885 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAGCA 1944  
|||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAGCA 60  
Query 1945 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 2004  
|||||||||||||||||||||||||||||||||||||||||||||

Sbjct 61 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 120  
Query 2005 CCCGCAATTATACATTAAACATGCGATAGAAAACAAAATAGCGCGCAAACCTAGGATAA 2064  
|||||||||||||||||||||||||||||||||||||||||

Sbjct 121 CCCGCAATTATACATTAAACATGCGATAGAAAACAAAATAGCGCGCAAACCTAGGATAA 180  
>lcl|Amplicon 626 non-redundant amplicon of 2 matches Length=180

Score = 320 bits (354), Expect = 8e-89  
Identities = 179/180 (99%), Gaps = 0/180 (0%)  
Strand=Plus/Plus

Query 1885 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAGCA 1944  
|||||||||||||||||||||||||||||||||||||||||

Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAGCA 60  
Query 1945 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 2004  
|||||||||||||||||||||||||||||||||

Sbjct 61 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 120  
Query 2005 CCCGCAATTATACATTAAACATGCGATAGAAAACAAAATAGCGCGCAAACCTAGGATAA 2064  
|||||||||||||||||||||||||||||

Sbjct 121 CCCGCAATTATACATTAAACATGCGATAGAAAACAAAATAGCGCGCAAACCTAGGATAA 180  
>lcl|Amplicon 391 non-redundant amplicon of 10 matches

Length=180

Score = 320 bits (354), Expect = 8e-89  
Identities = 179/180 (99%), Gaps = 0/180 (0%)  
Strand=Plus/Plus

Query 1885 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAGCA 1944  
|||||||||||||||||||||||||||||||||

Sbjct 1 GAATCCTGTTGCCGGACTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAGCA 60  
Query 1945 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 2004  
|||||||||||||||||||||||||

Sbjct 61 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 120  
Query 2005 CCCGCAATTATACATTAAACATGCGATAGAAAACAAAATAGCGCGCAAACCTAGGATAA 2064  
|||||||||||||||||||||

Sbjct 121 CCCGCAATTATACATTAAACATGCGATAGAAAACAAAATAGCGCGCAAACCTAGGATAA 180  
>lcl|Amplicon 264 non-redundant amplicon of 80 matches

Length=180

Score = 320 bits (354), Expect = 8e-89  
Identities = 179/180 (99%), Gaps = 0/180 (0%)  
Strand=Plus/Plus

Query 1885 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAGCA 1944  
|||||||||||||||||||||||||||||

Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAGCA 60  
Query 1945 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 2004  
|||||||||||||||||||||

Sbjct 61 CGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 120  
Query 1945 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 2004  
|||||||||||||||||||||

Sbjct 61 CGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 120  
Query 2005 CCCGCAATTATACTACATTAAATACCGCATAGAAAACAAAATATAGCGCGCAAACCTAGGATAA 2064  
|||||||  
Sbjct 121 CCCGCAATTATACTACATTAAATACCGCATAGAAAACAAAATATAGCGCGCAAACCTAGGATAA 180  
>lcl|Amplicon 613 non-redundant amplicon of 4 matches Length=180  
Score = 320 bits (354), Expect = 8e-89  
Identities = 179/180 (99%), Gaps = 0/180 (0%)  
Strand=Plus/Plus  
Query 1885 GAATCCTGTCGGCTTGCGATGATTATCATATAATTCTGTTGAATTACGTTAAC 1944  
|||||||  
Sbjct 1 GAATCCTGTCGGCTTGCGATGATTATCATATAATTCTGTTGAATTACGTTAAC 60  
Query 1945 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 2004  
|||||||  
Sbjct 61 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 120  
Query 2005 CCCGCAATTATACTACATTAAATACCGCATAGAAAACAAAATATAGCGCGCAAACCTAGGATAA 2064  
|||||||  
Sbjct 121 CCCGCAATTATACTACATTAAATACCGCATAGAAAACAAAATATAGCGCGCAAACCTAGGATAA 180  
>lcl|Amplicon 518 non-redundant amplicon of 2 matches Length=180  
Score = 320 bits (354), Expect = 8e-89  
Identities = 179/180 (99%), Gaps = 0/180 (0%)  
Strand=Plus/Plus  
Query 1885 GAATCCTGTCGGCTTGCGATGATTATCATATAATTCTGTTGAATTACGTTAAC 1944  
|||||||  
Sbjct 1 GAATCCTGTCGGCTTGCGATGATTATCATATAATTCTGTTGAATTACGTTAAC 60  
Query 1945 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 2004  
|||||||  
Sbjct 61 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTACGATTAGAGT 120  
Query 2005 CCCGCAATTATACTACATTAAATACCGCATAGAAAACAAAATATAGCGCGCAAACCTAGGATAA 2064  
|||||||  
Sbjct 121 CCCGCAATTATACTACATTAAATACCGCATAGAAAACAAAATATAGCGCGCAAACCTAGGATAA 180  
>lcl|Amplicon 508 non-redundant amplicon of 4 matches Length=180  
Score = 320 bits (354), Expect = 8e-89  
Identities = 179/180 (99%), Gaps = 0/180 (0%)  
Strand=Plus/Plus  
Query 1885 GAATCCTGTCGGCTTGCGATGATTATCATATAATTCTGTTGAATTACGTTAAC 1944  
|||||||  
Sbjct 1 GAATCCTGTCGGCTTGCGATGATTATCATATAATTCTGTTGAATTACGTTGAGCA 60  
Query 1945 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 2004  
|||||||  
Sbjct 61 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 120  
Query 2005 CCCGCAATTATACTACATTAAATACCGCATAGAAAACAAAATATAGCGCGCAAACCTAGGATAA 2064  
|||||||  
Sbjct 121 CCCGCAATTATACTACATTAAATACCGCATAGAAAACAAAATATAGCGCGCAAACCTAGGATAA 180  
>lcl|Amplicon 507 non-redundant amplicon of 4 matches  
>lcl|Amplicon 507 non-redundant amplicon of 4 matches  
Length=180  
Score = 320 bits (354), Expect = 8e-89  
Identities = 179/180 (99%), Gaps = 0/180 (0%)  
Strand=Plus/Plus  
Query 1885 GAATCCTGTCGGCTTGCGATGATTATCATATAATTCTGTTGAATTACGTTAAC 1944  
|||||||  
Sbjct 1 GAATCCTGTCGGCTTGCGATGATTATCATATAATTCTGTTGAATTACGTTAAC 60  
Query 1945 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 2004  
|||||||  
Sbjct 61 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 120  
Query 2005 CCCGCAATTATACTACATTAAATACCGCATAGAAAACAAAATATAGCGCGCAAACCTAGGATAA 2064  
|||||||  
Sbjct 121 CCCGCAATTATACTACATTAAATACCGCATAGAAAACAAAATATAGCGCGCAAACCTAGGATAA 180  
>lcl|Amplicon 416 non-redundant amplicon of 6 matches Length=180  
Score = 320 bits (354), Expect = 8e-89  
Identities = 179/180 (99%), Gaps = 0/180 (0%)  
Strand=Plus/Plus  
Query 1885 GAATCCTGTCGGCTTGCGATGATTATCATATAATTCTGTTGAATTACGTTAAC 1944  
|||||||  
Sbjct 1 GAATCCTGTCGGCTTGCGATGATTATCATATAATTCTGTTGAATTACGTTAAC 60  
Query 1945 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 2004  
|||||||  
Sbjct 61 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 120  
Query 2005 CCCGCAATTATACTACATTAAATACCGCATAGAAAACAAAATATAGCGCGCAAACCTAGGATAA 2064  
|||||||  
Sbjct 121 CCCGCAATTATACTACATTAAATACCGCATAGAAAACAAAATATAGCGCGCAAACCTAGGATAA 180

Query 2005 CCCGCAATTATACATTAAATACGCGATAGAAAACAAAATAGCGCGCAAACCTAGGATAA 2064  
|||||||  
Sbjct 121 CCCGCAATTATACATTAAATACGCGATAGAAAACAAAATAGCGCGCAAACCTGGGATAA 180  
>lcl|Amplicon 409 non-redundant amplicon of 16 matches  
Length=180  
Score = 320 bits (354), Expect = 8e-89  
Identities = 179/180 (99%), Gaps = 0/180 (0%)  
Strand=Plus/Plus  
Query 1885 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAC 1944  
|||||||  
Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAC 60  
Query 1945 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAG 2004  
|||||||  
Sbjct 61 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAG 120  
Query 2005 CCCGCAATTATACATTAAATACGCGATAGAAAACAAAATAGCGCGCAAACCTAGGATAA 2064  
|||||||  
Sbjct 121 CCCGCAATTATACATTAAATACGCGATAGAAAACAAAATAGCGCGCAAACCTAGGATAA 180  
>lcl|Amplicon 396 non-redundant amplicon of 12 matches  
Length=180  
Score = 320 bits (354), Expect = 8e-89  
Identities = 179/180 (99%), Gaps = 0/180 (0%)  
Strand=Plus/Plus  
Query 1885 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAC 1944  
Identities = 179/180 (99%), Gaps = 0/180 (0%)  
Strand=Plus/Plus  
Query 1885 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAC 1944  
|||||||  
Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAC 60  
Query 1945 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAG 2004  
|||||||  
Sbjct 61 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAG 120  
Query 2005 CCCGCAATTATACATTAAATACGCGATAGAAAACAAAATAGCGCGCAAACCTAGGATAA 2064  
|||||||  
Sbjct 121 CCCGCAATTATACATTAAATACGCGATAGAAAACAAAATAGCGCGCAAACCTAGGATAA 180  
>lcl|Amplicon 227 non-redundant amplicon of 16 matches  
Length=180  
Score = 320 bits (354), Expect = 8e-89  
Identities = 179/180 (99%), Gaps = 0/180 (0%)  
Strand=Plus/Plus  
Query 1885 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAC 1944  
|||||||  
Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAC 60  
Query 1945 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAG 2004  
|||||||  
Sbjct 61 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAG 120  
Query 2005 CCCGCAATTATACATTAAATACGCGATAGAAAACAAAATAGCGCGCAAACCTAGGATAA 2064  
|||||||  
Sbjct 121 CCCGCAATTATACATTAAATACGCGATAGAAAACAGAATAGCGCGCAAACCTAGGATAA 180  
>lcl|Amplicon 403 non-redundant amplicon of 96 matches  
Length=180  
Score = 320 bits (354), Expect = 8e-89  
Identities = 179/180 (99%), Gaps = 0/180 (0%)  
Strand=Plus/Plus  
Query 1885 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAC 1944  
|||||||  
Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAC 60  
Query 1945 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAG 2004  
|||||||  
Sbjct 61 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAG 120  
Query 2005 CCCGCAATTATACATTAAATACGCGATAGAAAACAAAATAGCGCGCAAACCTAGGATAA 2064  
|||||||  
Sbjct 121 CCCGCAATTATACATTAAATACGCGATAGAAAACAGAATAGCGCGCAAACCTAGGATAA 180  
>lcl|Amplicon 52 non-redundant amplicon of 218 matches  
Length=180  
Score = 320 bits (354), Expect = 8e-89  
Identities = 179/180 (99%), Gaps = 0/180 (0%)  
Strand=Plus/Plus  
Query 1885 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAC 1944  
|||||||

Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAGCA 60  
Query 1945 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 2004  
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 120  
Query 1945 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 2004  
||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 120  
Query 2005 CCCGCAATTATAACATTAAATACCGCATAGAAAACAAAATAGCGCGCAAACCTAGGATAA 2064  
||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 121 CCCGCAATTATAACATTAAATACCGCATAGAAAACAAAATAGCGCGCAAACCTAGGATAA 180  
>lcl|Amplicon 419 non-redundant amplicon of 14 matches  
Length=180  
Score = 320 bits (354), Expect = 8e-89  
Identities = 177/177 (100%), Gaps = 0/177 (0%)  
Strand=Plus/Plus  
Query 1885 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAGCA 1944  
||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAGCA 60  
Query 1945 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 2004  
||||||||||||||||||||||||||||||||||||||||  
Sbjct 61 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 120  
Query 2005 CCCGCAATTATAACATTAAATACCGCATAGAAAACAAAATAGCGCGCAAACCTAGGA 2061  
||||||||||||||||||||||||||||||||||||||||  
Sbjct 121 CCCGCAATTATAACATTAAATACCGCATAGAAAACAAAATAGCGCGCAAACCTAGGA 177  
>lcl|Amplicon 27 non-redundant amplicon of 324 matches  
Length=180  
Score = 320 bits (354), Expect = 8e-89  
Identities = 179/180 (99%), Gaps = 0/180 (0%)  
Strand=Plus/Plus  
Query 1885 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAGCA 1944  
||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAGCA 60  
Query 1945 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 2004  
||||||||||||||||||||||||||||||||||||  
Sbjct 61 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 120  
Query 2005 CCCGCAATTATAACATTAAATACCGCATAGAAAACAAAATAGCGCGCAAACCTAGGATAA 2064  
||||||||||||||||||||||||||||||||  
Sbjct 121 CCCGCAATTATAACATTAAATACCGCATAGAAAACAAAATAGCGCGCAAACCTAGGATAA 180  
>lcl|Amplicon 525 non-redundant amplicon of 8 matches Length=181  
Score = 318 bits (352), Expect = 3e-88  
Identities = 180/181 (99%), Gaps = 1/181 (1%)  
Strand=Plus/Plus  
Query 1885 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAGCA 1944  
||||||||||||||||||||||||||||||||||||  
Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAGCA 60  
Query 1945 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 2004  
||||||||||||||||||||||||||||||||  
Sbjct 61 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 120  
Query 2005 CCCGCAATTATAACATTAAATA-CGGCATAGAAAACAAAATAGCGCGCAAACCTAGGATA 2063  
||||||||||||||||||||||||||||||||  
Sbjct 121 CCCGCAATTATAACATTAAATACCGCATAGAAAACAAAATAGCGCGCAAACCTAGGATA 180  
Query 2064 A 2064  
|  
Sbjct 181 A 181  
Query 2064 A 2064  
|  
Sbjct 181 A 181  
>lcl|Amplicon 646 non-redundant amplicon of 4 matches Length=179  
Score = 316 bits (350), Expect = 1e-87  
Identities = 179/180 (99%), Gaps = 1/180 (1%)  
Strand=Plus/Plus  
Query 1885 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAGCA 1944  
||||||||||||||||||||||||||||||||  
Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAGCA 60  
Query 1945 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 2004  
||||||||||||||||||||||||||||  
Sbjct 61 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGG-TTTATGATTAGAGT 119  
Query 2005 CCCGCAATTATAACATTAAATACCGCATAGAAAACAAAATAGCGCGCAAACCTAGGATAA 2064

|||  
Sbjct 120 CCCGCAATTATAACATTAAATACCGCATAGAAAACAAAATATAGCGCGCAAACCTAGGATAA 179  
>lcl|Amplicon\_607 non-redundant amplicon of 10 matches  
Length=180  
Score = 316 bits (350), Expect = 1e-87  
Identities = 178/180 (99%), Gaps = 0/180 (0%)  
Strand=Plus/Plus  
Query 1885 GAATCCTGTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAC 1944  
|||  
Sbjct 1 GAATCCTGTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAC 60  
Query 1945 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 2004  
|||  
Sbjct 61 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 120  
Query 2005 CCCGCAATTATAACATTAAATACCGCATAGAAAACAAAATATAGCGCGCAAACCTAGGATAA 2064  
|||  
Sbjct 121 CCCGCAATTATAACATTAAATACCGCATAGAAAACAAAATATAGCGCGCAAACCTAGGATAA 180  
>lcl|Amplicon\_499 non-redundant amplicon of 38 matches  
Length=179  
Score = 316 bits (350), Expect = 1e-87  
Identities = 179/180 (99%), Gaps = 1/180 (1%)  
Strand=Plus/Plus  
Query 1885 GAATCCTGTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAC 1944  
|||  
Sbjct 1 GAATCCTGTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAC 59  
Query 1945 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 2004  
|||  
Sbjct 60 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 119  
Query 2005 CCCGCAATTATAACATTAAATACCGCATAGAAAACAAAATATAGCGCGCAAACCTAGGATAA 2064  
|||  
Sbjct 120 CCCGCAATTATAACATTAAATACCGCATAGAAAACAAAATATAGCGCGCAAACCTAGGATAA 179  
>lcl|Amplicon\_473 non-redundant amplicon of 2 matches Length=180  
Score = 316 bits (350), Expect = 1e-87  
Length=180  
Score = 316 bits (350), Expect = 1e-87  
Identities = 178/180 (99%), Gaps = 0/180 (0%)  
Strand=Plus/Plus  
Query 1885 GAATCCTGTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAC 1944  
|||  
Sbjct 1 GAATCCTGTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAC 60  
Query 1945 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 2004  
|||  
Sbjct 61 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 120  
Query 2005 CCCGCAATTATAACATTAAATACCGCATAGAAAACAAAATATAGCGCGCAAACCTAGGATAA 2064  
|||  
Sbjct 121 CCCGCAATTATAACATTAAATACCGCATAGAAAACAAAATATAGCGCGCAAACCTAGGATAA 180  
>lcl|Amplicon\_284 non-redundant amplicon of 12 matches  
Length=180  
Score = 316 bits (350), Expect = 1e-87  
Identities = 178/180 (99%), Gaps = 0/180 (0%)  
Strand=Plus/Plus  
Query 1885 GAATCCTGTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAC 1944  
|||  
Sbjct 1 GAATCCTGTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAC 60  
Query 1945 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 2004  
|||  
Sbjct 61 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 120  
Query 2005 CCCGCAATTATAACATTAAATACCGCATAGAAAACAAAATATAGCGCGCAAACCTAGGATAA 2064  
|||  
Sbjct 121 CCCGCAATTATAACATTAAATACCGCATAGAAAACAAAATATAGCGCGCAAACCTAGGATAA 180  
>lcl|Amplicon\_425 non-redundant amplicon of 24 matches  
Length=180  
Score = 316 bits (350), Expect = 1e-87  
Identities = 178/180 (99%), Gaps = 0/180 (0%)  
Strand=Plus/Plus  
Query 1885 GAATCCTGTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAC 1944  
|||  
Sbjct 1 GAATCCTGTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAC 60  
Query 1945 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 2004  
|||

Sbjct 61 TGAAATAATTACATGTAATGCATGACGTAATTATGAGATGGGTTTTATGATTAGAGT 120  
Query 2005 CCCGCAATTATACATTAAATACCGCATAGAAAACAAAATAGCGCGCAAACCTAGGATAA 2064  
|||||||  
Sbjct 121 CCCGCAATTATACATTAAATACCGCATAGAAAACAAAATAGCGCGCAAACCTAGGATAA 180  
>lcl|Amplicon 37 non-redundant amplicon of 98 matches Length=179  
Score = 316 bits (350), Expect = 1e-87  
Identities = 179/180 (99%), Gaps = 1/180 (1%)  
Strand=Plus/Plus  
Query 1885 GAATCCTGTTGCCGGCTTGCGATGATTATCATATAATTCTGTTGAATTACGTTAAC 1944  
|||||||  
Sbjct 1 GAATCCTGTTGCCGGCTTGCGATGATTATCATATAATTCTGTTGAATTACGTTAAC 60  
|||||||  
Sbjct 1 GAATCCTGTTGCCGGCTTGCGATGATTATCATATAATTCTGTTGAATTACGTTAAC 60  
Query 1945 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 2004  
|||||||  
Sbjct 61 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTT-TGATTAGAGT 119  
Query 2005 CCCGCAATTATACATTAAATACCGCATAGAAAACAAAATAGCGCGCAAACCTAGGATAA 2064  
|||||||  
Sbjct 120 CCCGCAATTATACATTAAATACCGCATAGAAAACAAAATAGCGCGCAAACCTAGGATAA 179  
>lcl|Amplicon 76 non-redundant amplicon of 14 matches  
Length=179  
Score = 316 bits (350), Expect = 1e-87  
Identities = 179/180 (99%), Gaps = 1/180 (1%)  
Strand=Plus/Plus  
Query 1885 GAATCCTGTTGCCGGCTTGCGATGATTATCATATAATTCTGTTGAATTACGTTAAC 1944  
|||||||  
Sbjct 1 GAATCCTGTTGCCGGCTTGCGATGATTATCATATAATTCTGTTGAATTACGTTAAC 60  
Query 1945 TGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGT 2004  
|||||||  
Sbjct 61 TGTAATAATTAAACATGTAATGCATGACGTTA-TTATGAGATGGGTTTTATGATTAGAGT 119  
Query 2005 CCCGCAATTATACATTAAATACCGCATAGAAAACAAAATAGCGCGCAAACCTAGGATAA 2064  
|||||||  
Sbjct 120 CCCGCAATTATACATTAAATACCGCATAGAAAACAAAATAGCGCGCAAACCTAGGATAA 179  
>lcl|Amplicon 329 non-redundant amplicon of 18 matches  
Length=179  
Score = 315 bits (348), Expect = 3e-87  
Identities = 177/179 (99%), Gaps = 0/179 (0%)  
Strand=Plus/Plus  
Query 1886 AATCCTGTTGCCGGCTTGCGATGATTATCATATAATTCTGTTGAATTACGTTAACAT 1945  
|||||||  
Sbjct 1 AATCCTGTTGCCGGCTTGCGATGATTATCATATAATTCTGTTGAATTACGTTAACAT 60  
Query 1946 GTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTC 2005  
|||||||  
Sbjct 61 GTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTC 120  
Query 2006 CCGCAATTATACATTAAATACCGCATAGAAAACAAAATAGCGCGCAAACCTAGGATAA 2064  
|||||||  
Sbjct 121 CCGCAATTATACATTAAATACCGCATAGAAAACAAAATAGCGCGCAAACCTAGGATAA 179  
>lcl|Amplicon 578 non-redundant amplicon of 2 matches  
Length=180  
Score = 311 bits (344), Expect = 4e-86  
Identities = 179/181 (99%), Gaps = 2/181 (1%)  
Strand=Plus/Plus  
Query 1885 GAATCCTGTTGCCGGCTTGCGATGATTATCATATA-ATTCTGTTGAATTACGTTAAC 1943  
|||||||  
Sbjct 1 GAATCCTGTTGCCGGCTTGCGATGATTATCATATAATTCTGTTG-ATTACGTTAAC 59  
Query 1944 ATGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAG 2003  
|||||||  
Sbjct 60 ATGTAATAATTAAACATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAG 119  
Query 2004 TCCCGCAATTATACATTAAATACCGCATAGAAAACAAAATAGCGCGCAAACCTAGGATA 2063  
|||||||  
Sbjct 120 TCCCGCAATTATACATTAAATACCGCATAGAAAACAAAATAGCGCGCAAACCTAGGATA 179 Query  
2004 TCCCGCAATTATACATTAAATACCGCATAGAAAACAAAATAGCGCGCAAACCTAGGATA 2063  
|||||||  
Sbjct 120 TCCCGCAATTATACATTAAATACCGCATAGAAAACAAAATAGCGCGCAAACCTAGGATA 179  
Query 2064 A 2064  
|  
Sbjct 180 A 180  
>lcl|Amplicon 521 non-redundant amplicon of 4 matches Length=180

Score = 311 bits (344), Expect = 4e-86  
Identities = 177/180 (98%), Gaps = 0/180 (0%)  
Strand=Plus/Plus

Query	1885	GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAGCA	1944
Sbjct	1	GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAGCA	60
Query	1945	TGTAATAATTAAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTATGATTAGAGT	2004
Sbjct	61	TGTAATAATTAAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTATGATTACACT	120
Query	2005	CCCGCAATTATACATTAAATACGCGATAGAAAACAAAATAGCGCGCAAACCTAGGATAA	2064
Sbjct	121	CCCCAATTATACATTAAATACGCGATAGAAAACAAAATAGCGCGCAAACCTAGGATAA	180
> <a href="#">lcl Amplicon_269 non-redundant amplicon of 34 matches</a>			
Length=179			
Score =	309 bits (342),	Expect = 1e-85	
Identities =	176/179 (98%),	Gaps = 0/179 (0%)	
Strand=Plus/Plus			
Query	1885	GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAGCA	1944
Sbjct	1	GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAGCA	60
Query	1945	TGTAATAATTAAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTATGATTAGAGT	2004
Sbjct	61	TGTAATAATTAAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTATGATTAGAGT	120
Query	2005	CCCGCAATTATACATTAAATACGCGATAGAAAACAAAATAGCGCGCAAACCTAGGATAA	2063
Sbjct	121	CCCGCAATTATACATTAAATACGCGATAGAAAACAAAATTAGCGCGCAAACCTAGGATAA	179
> <a href="#">lcl Amplicon_310 non-redundant amplicon of 26 matches</a>			
Length=180			
Score =	298 bits (330),	Expect = 3e-82	
Identities =	174/180 (97%),	Gaps = 0/180 (0%)	
Strand=Plus/Plus			
Query	1885	GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAGCA	1944
Sbjct	1	GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGAAATTGCA	60
Query	1945	TGTAATAATTAAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTATGATTAGAGT	2004
Sbjct	61	TGTAATAATTAAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTATGATTAGAGT	120
Query	2005	CCCGCAATTATACATTAAATACGCGATAGAAAACAAAATAGCGCGCAAACCTAGGATAA	2064
Sbjct	121	CCCGCAATTATACATTAAATACGCGATAGAAAACAAAATAGCGCGCAAACCTACCATAA	180
> <a href="#">lcl Amplicon_94 non-redundant amplicon of 12 matches</a>			
Sbjct	121	CCCGCAATTATACATTAAATACGCGATAGAAAACAAAATAGCGCGCAAACCTACCATAA	180
> <a href="#">lcl Amplicon_94 non-redundant amplicon of 12 matches</a>			
Length=186			
Score =	275 bits (304),	Expect = 3e-75	
Identities =	178/186 (96%),	Gaps = 7/186 (4%)	
Strand=Plus/Plus			
Query	1885	GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAGCA	1944
Sbjct	1	GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAGCA	60
Query	1945	TGTAATAATT-AACATGTAATGCATGACGTTATTTATGAGAT-GGGTTTTATGATT-AG	2001
Sbjct	61	TGTAATAATTAAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTATGATTAAG	120
Query	2002	AGT-CCCGCAATTATACA-TTTAACGCGATAG-AAAACAAAATAGCGCGCAAAC-	2057
Sbjct	121	AGTCCCCGCAATTATACATTAAATACGCGATAGAAAACAAAATAGGCCCAAAC	180
Query	2058	AGGATA 2063	
Sbjct	181	AGGATA 186	
> <a href="#">lcl Amplicon_320 non-redundant amplicon of 22 matches</a>			
Length=220			
Score =	248 bits (274),	Expect = 4e-67	
Identities =	180/220 (82%),	Gaps = 40/220 (18%)	
Strand=Plus/Plus			
Query	1885	GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAGCA	1944
Sbjct	1	GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTCTGTTGAATTACGTTAAGCA	60
Query	1945	TGTAATAATTAAACATGTAATGCA-----	1967

|||||||||||||||||||  
Sbjct 61 TGTAATAATTAAACATGTAATGCACAGATAGGCCTAACGCTTGTCCAAGATCTATTCAAGGT 120  
Query 1968 ---TGACGTTATTTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACATTTAAT 2024  
|||||||||||||||||||  
Sbjct 121 GCATGACGTTATTTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACATTTAAT 180  
Query 2025 ACGCGATAGAAAACAAATATAGCGCGCAAACCTAGGATAA 2064  
|||||||||||||||||||  
Sbjct 181 ACGCGATAGAAAACAAATATAGCGCGCAAACCTAGGATAA 220  
>lcl|Amplicon 0 non-redundant amplicon of 12684 matches  
Length=118  
Score = 214 bits (236), Expect = 9e-57  
Identities = 118/118 (100%), Gaps = 0/118 (0%)  
Strand=Plus/Plus  
Query 1965 GCATGACGTTATTTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACATTTAAT 2024  
|||||||||||||||||||  
Sbjct 1 GCATGACGTTATTTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACATTTAAT 60  
Query 2025 ACGCGATAGAAAACAAATATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 2082  
|||||||||||||||||||  
Sbjct 61 ACGCGATAGAAAACAAATATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 118  
>lcl|Amplicon 648 non-redundant amplicon of 4 matches  
Length=118  
Score = 210 bits (232), Expect = 1e-55  
>lcl|Amplicon 648 non-redundant amplicon of 4 matches Length=118  
Score = 210 bits (232), Expect = 1e-55  
Identities = 116/116 (100%), Gaps = 0/116 (0%)  
Strand=Plus/Plus  
Query 1965 GCATGACGTTATTTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACATTTAAT 2024  
|||||||||||||||||||  
Sbjct 1 GCATGACGTTATTTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACATTTAAT 60  
Query 2025 ACGCGATAGAAAACAAATATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTG 2080  
|||||||||||||||||||  
Sbjct 61 ACGCGATAGAAAACAAATATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTG 116  
>lcl|Amplicon 224 non-redundant amplicon of 12 matches  
Length=118  
Score = 210 bits (232), Expect = 1e-55  
Identities = 117/118 (99%), Gaps = 0/118 (0%)  
Strand=Plus/Plus  
Query 1965 GCATGACGTTATTTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACATTTAAT 2024  
|||||||||||||||||||  
Sbjct 1 GCATGACGTTATTTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACATTTAAT 60  
Query 2025 ACGCGATAGAAAACAAATATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 2082  
|||||||||||||||||||  
Sbjct 61 ACGCGATAGAAAACAAATATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 118  
>lcl|Amplicon 614 non-redundant amplicon of 2 matches  
Length=118  
Score = 208 bits (230), Expect = 4e-55  
Identities = 117/118 (99%), Gaps = 0/118 (0%)  
Strand=Plus/Plus  
Query 1965 GCATGACGTTATTTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACATTTAAT 2024  
|||||||||||||||||||  
Sbjct 1 GCATGACGTTATCTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACATTTAAT 60  
Query 2025 ACGCGATAGAAAACAAATATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 2082  
|||||||||||||||||||  
Sbjct 61 ACGCGATAGAAAACAAATATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 118  
>lcl|Amplicon 519 non-redundant amplicon of 1 matches Length=118  
Score = 208 bits (230), Expect = 4e-55  
Identities = 117/118 (99%), Gaps = 0/118 (0%)  
Strand=Plus/Plus  
Query 1965 GCATGACGTTATTTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACATTTAAT 2024  
|||||||||||||||||||  
Sbjct 1 GCATGACGTTATTTATGAGATGGGTTTTACGATTAGAGTCCCGCAATTATACATTTAAT 60  
Query 2025 ACGCGATAGAAAACAAATATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 2082  
|||||||||||||||||||  
Sbjct 61 ACGCGATAGAAAACAAATATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 118  
>lcl|Amplicon 272 non-redundant amplicon of 5 matches Length=118  
Score = 208 bits (230), Expect = 4e-55  
Identities = 115/115 (100%), Gaps = 0/115 (0%)  
Strand=Plus/Plus  
Score = 208 bits (230), Expect = 4e-55

Identities = 115/115 (100%), Gaps = 0/115 (0%)

Strand=Plus/Plus

Query 1965 GCATGACGTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACTTTAAT 2024

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

Sbjct 1 GCATGACGTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACTTTAAT 60

Query 2025 ACGCGATAGAAAACAAATATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGT 2079

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

Sbjct 61 ACGCGATAGAAAACAAATATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGT 115

>lcl|Amplicon 417 non-redundant amplicon of 3 matches Length=118

Score = 208 bits (230), Expect = 4e-55

Identities = 117/118 (99%), Gaps = 0/118 (0%)

Strand=Plus/Plus

Query 1965 GCATGACGTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACTTTAAT 2024

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

Sbjct 1 GCATGACGTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACTTTAAT 60

Query 2025 ACGCGATAGAAAACAAATATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 2082

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

Sbjct 61 ACGCGATAGAAAACAAATATAGCGCGCAAACCTGGGATAAATTATCGCGCGCGGTGTC 118

>lcl|Amplicon 228 non-redundant amplicon of 8 matches

Length=118

Score = 208 bits (230), Expect = 4e-55

Identities = 117/118 (99%), Gaps = 0/118 (0%)

Strand=Plus/Plus

Query 1965 GCATGACGTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACTTTAAT 2024

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

Sbjct 1 GCATGACGTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACTTTAAT 60

Query 2025 ACGCGATAGAAAACAAATATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 2082

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

Sbjct 61 ACGCGATAGAAAACAGAATATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 118

>lcl|Amplicon 397 non-redundant amplicon of 6 matches

Length=118

Score = 208 bits (230), Expect = 4e-55

Identities = 117/118 (99%), Gaps = 0/118 (0%)

Strand=Plus/Plus

Query 1965 GCATGACGTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACTTTAAT 2024

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

Sbjct 1 GCATGACGTATTATGAGATGGGTTTTATGATTAGACTCCCGCAATTATACTTTAAT 60

Query 2025 ACGCGATAGAAAACAAATATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 2082

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

Sbjct 61 ACGCGATAGAAAACAAATATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 118

>lcl|Amplicon 426 non-redundant amplicon of 12 matches

Length=118

Score = 208 bits (230), Expect = 4e-55

Identities = 117/118 (99%), Gaps = 0/118 (0%)

Strand=Plus/Plus

Query 1965 GCATGACGTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACTTTAAT 2024

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

Strand=Plus/Plus

Query 1965 GCATGACGTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACTTTAAT 2024

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

Sbjct 1 GCATGACGTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACTTTAAT 60

Query 2025 ACGCGATAGAAAACAAATATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 2082

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

Sbjct 61 ACGCGATAGAAAACAAATATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 118

>lcl|Amplicon 404 non-redundant amplicon of 48 matches

Length=118

Score = 208 bits (230), Expect = 4e-55

Identities = 117/118 (99%), Gaps = 0/118 (0%)

Strand=Plus/Plus

Query 1965 GCATGACGTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACTTTAAT 2024

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

Sbjct 1 GCATGACGTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACTTTAAT 60

Query 2025 ACGCGATAGAAAACAAATATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 2082

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

Sbjct 61 ACGCGATAGAGACAAAATATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 118

>lcl|Amplicon 53 non-redundant amplicon of 109 matches

Length=118

Score = 208 bits (230), Expect = 4e-55

Identities = 117/118 (99%), Gaps = 0/118 (0%)

Strand=Plus/Plus

Query 1965 GCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACTTTAAT 2024  
||||||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct 1 GCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACTTTAAT 60

Query 2025 ACGCGATAGAAAACAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 2082  
||||||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct 61 ACGCGATAGAAAACAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 118

>lcl|Amplicon 526 non-redundant amplicon of 4 matches

Length=119

Score = 206 bits (228), Expect = 1e-54

Identities = 118/119 (99%), Gaps = 1/119 (1%)

Strand=Plus/Plus

Query 1965 GCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACTTTAAT 2024  
||||||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct 1 GCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACTTTAAT 60

Query 2025 A-CGCGATAGAAAACAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 2082  
| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct 61 ACCCGCATAGAAAACAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 119

>lcl|Amplicon 389 non-redundant amplicon of 5 matches Length=119

Score = 206 bits (228), Expect = 1e-54

Identities = 118/119 (99%), Gaps = 1/119 (1%)

Strand=Plus/Plus

Query 1965 GCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACTTTAAT 2024  
||||||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct 1 GCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACTTTAAT 60

Query 2025 ACGCGATAGAAAACAAATATAG-CGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 2082  
||||||| ||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct 1 GCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACTTTAAT 60

Query 2025 ACGCGATAGAAAACAAATATAG-CGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 2082  
||||||| ||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct 61 ACGCGATAGAAAACAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 119

>lcl|Amplicon 77 non-redundant amplicon of 7 matches

Length=118

Score = 206 bits (228), Expect = 1e-54

Identities = 118/119 (99%), Gaps = 1/119 (1%)

Strand=Plus/Plus

Query 1964 TGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACTTTA 2023  
||||||| ||||| ||||||||||||||||||||||||||||||||||||||||||||||

Sbjct 1 TGCATGACGTTATT-ATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACTTTA 59

Query 2024 TACCGCATAGAAAACAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 2082  
||||||| ||||||||||||||||||||||||||||||||||||||||||||||

Sbjct 60 TACCGCATAGAAAACAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 118

>lcl|Amplicon 654 non-redundant amplicon of 2 matches Length=118

Score = 205 bits (226), Expect = 4e-54

Identities = 116/118 (98%), Gaps = 0/118 (0%)

Strand=Plus/Plus

Query 1965 GCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACTTTAAT 2024  
||||||| ||||||||||||||||||||||||||||||||||||||||||||||

Sbjct 1 GCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACTTTAAT 60

Query 2025 ACGCGATAGAAAACAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 2082  
||||||| ||||||||||||||||||||||||||||||||||||||||||

Sbjct 61 ACGCGATAGAAAACAAATATAGCTCGCAAACCTAGGATAAAATTATCGCTCGCGGTGTC 118

>lcl|Amplicon 608 non-redundant amplicon of 5 matches

Length=118

Score = 205 bits (226), Expect = 4e-54

Identities = 116/118 (98%), Gaps = 0/118 (0%)

Strand=Plus/Plus

Query 1965 GCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACTTTAAT 2024  
||||||| ||||||||||||||||||||||||||||||||||||||||||

Sbjct 1 GCATGACGTTTTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACTTTAAT 60

Query 2025 ACGCGATAGAAAACAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 2082  
|| | ||||||||||||||||||||||||||||||||||||||||||

Sbjct 61 ACACGATAGAAAACAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 118

>lcl|Amplicon 285 non-redundant amplicon of 6 matches Length=118

Score = 205 bits (226), Expect = 4e-54

Identities = 116/118 (98%), Gaps = 0/118 (0%)

Strand=Plus/Plus

Query 1965 GCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACTTTAAT 2024  
||||||| ||||||||||||||||||||||||||||||||||||||

Sbjct 1 GCATGACGTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACTTAAT 60  
Query 2025 ACGCGATAGAAAACAAATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 2082  
|||||||  
Sbjct 61 ACGCGATAGAAAACAAATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 118  
Query 2025 ACGCGATAGAAAACAAATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 2082  
|||||||  
Sbjct 61 ACGCGATAGAAAACAAATAGCGCGCAAACCTGGGATAAATTATCGCGCGCGGTGTC 118  
>lcl|Amplicon 38 non-redundant amplicon of 43 matches Length=117  
Score = 205 bits (226), Expect = 4e-54  
Identities = 117/118 (99%), Gaps = 1/118 (1%)  
Strand=Plus/Plus  
Query 1965 GCATGACGTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACTTAAT 2024  
|||||||  
Sbjct 1 GCATGACGTATTATGAGATGGGTTTT-TGATTAGAGTCCCGCAATTATACTTAAT 59  
Query 2025 ACGCGATAGAAAACAAATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 2082  
|||||||  
Sbjct 60 ACGCGATAGAAAACAAATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 117  
>lcl|Amplicon 311 non-redundant amplicon of 10 matches Length=118  
Score = 205 bits (226), Expect = 4e-54  
Identities = 116/118 (98%), Gaps = 0/118 (0%)  
Strand=Plus/Plus  
Query 1965 GCATGACGTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACTTAAT 2024  
|||||||  
Sbjct 1 GCATGACGTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACTTAAT 60  
Query 2025 ACGCGATAGAAAACAAATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 2082  
|||||||  
Sbjct 61 ACGCGATAGAAAACAAATAGCGCGCAAACCTACCATAAATTATCGCGCGCGGTGTC 118  
>lcl|Amplicon 56 non-redundant amplicon of 3 matches Length=118  
Score = 203 bits (224), Expect = 2e-53  
Identities = 112/112 (100%), Gaps = 0/112 (0%)  
Strand=Plus/Plus  
Query 1971 CGTTATTTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACTTAATACGCGA 2030  
|||||||  
Sbjct 7 CGTTATTTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACTTAATACGCGA 66  
Query 2031 TAGAAAACAAATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 2082  
|||||||  
Sbjct 67 TAGAAAACAAATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 118  
>lcl|Amplicon 522 non-redundant amplicon of 2 matches Length=118  
Score = 199 bits (220), Expect = 2e-52  
Identities = 115/118 (97%), Gaps = 0/118 (0%)  
Strand=Plus/Plus  
Query 1965 GCATGACGTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACTTAAT 2024  
|||||||  
Sbjct 1 GCATGACGTATTATGAGATGGGTTTTATGATTACACTCCCCAATTATACTTAAT 60  
Query 2025 ACGCGATAGAAAACAAATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 2082  
|||||||  
Sbjct 61 ACGCGATAGAAAACAAATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 118  
>lcl|Amplicon 270 non-redundant amplicon of 17 matches  
>lcl|Amplicon 270 non-redundant amplicon of 17 matches Length=118  
Score = 199 bits (220), Expect = 2e-52  
Identities = 115/118 (97%), Gaps = 0/118 (0%)  
Strand=Plus/Plus  
Query 1965 GCATGACGTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACTTAAT 2024  
|||||||  
Sbjct 1 GCATGACGTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACTTAAT 60  
Query 2025 ACGCGATAGAAAACAAATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 2082  
|||||||  
Sbjct 61 ACGCGATAGAAAACAAATTATCGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 118  
>lcl|Amplicon 336 non-redundant amplicon of 3 matches Length=114  
Score = 190 bits (210), Expect = 1e-49  
Identities = 114/118 (97%), Gaps = 4/118 (3%)  
Strand=Plus/Plus  
Query 1965 GCATGACGTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACTTAAT 2024  
|||||||  
Sbjct 1 GCATGACGTATTATGAGATGGGTTTT-ATGATTAGAGTCCCGCAATTATACTTAAT 59

Query 2025 ACGCGATAGAAAACAAATATAGCGCGAAACTAGGATAAATTATCGCGCGCGGTGTC 2082  
|||||||  
Sbjct 60 ACGCGATAGAAAACAAATATAGCGCG---ACTAGGATAAATTATCGCGCGCGGTGTC 114  
>lcl|Amplicon 493 non-redundant amplicon of 1 matches  
Length=116  
Score = 188 bits (208), Expect = 3e-49  
Identities = 113/118 (96%), Gaps = 2/118 (2%)  
Strand=Plus/Plus  
Query 1965 GCATGACGTATTTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACATTAAT 2024  
|||||||  
Sbjct 1 GCATGACGTATTTATGAGATGGGTTTA--GATTGGAGTCCCGCAATTATACATTAAT 58  
Query 2025 ACGCGATAGAAAACAAATATAGCGCGAAACTAGGATAAATTATCGCGCGCGGTGTC 2082  
|||||||  
Sbjct 59 ACGCGATAGAAAACAAATATCGCGCGAAACTAGGATAAATTATCGCGCGCGGTGTC 116  
>lcl|Amplicon 582 non-redundant amplicon of 1 matches Length=111  
Score = 183 bits (202), Expect = 1e-47  
Identities = 111/118 (94%), Gaps = 7/118 (6%)  
Strand=Plus/Plus  
Query 1965 GCATGACGTATTTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACATTAAT 2024  
|||||||  
Sbjct 1 GCATGACGTATTTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACATTAAT 60  
Query 2025 ACGCGATAGAAAACAAATATAGCGCGAAACTAGGATAAATTATCGCGCGCGGTGTC 2082  
|||||||  
Sbjct 61 ACGCGATAGAAAACAAATAT----AAACTAGGATAAATTATCGCGCGCGGTGTC 111  
>lcl|Amplicon 3 non-redundant amplicon of 2803 matches  
Length=94  
Score = 170 bits (188), Expect = 9e-44  
Length=94  
Score = 170 bits (188), Expect = 9e-44  
Identities = 94/94 (100%), Gaps = 0/94 (0%)  
Strand=Plus/Plus  
Query 424 AAGCACATACGTCAAGAACCATATTGCGCGTCAAAAGTCGCTAACGGTCACTATCAGC 483  
|||||||  
Sbjct 1 AAGCACATACGTCAAGAACCATATTGCGCGTCAAAAGTCGCTAACGGTCACTATCAGC 60  
Query 484 TAGCAAATATTCTTGTCAAAATGCTCCACTGA 517  
|||||||  
Sbjct 61 TAGCAAATATTCTTGTCAAAATGCTCCACTGA 94  
>lcl|Amplicon 575 non-redundant amplicon of 7 matches Length=94  
Score = 165 bits (182), Expect = 4e-42  
Identities = 93/94 (99%), Gaps = 0/94 (0%)  
Strand=Plus/Plus  
Query 424 AAGCACATACGTCAAGAACCATATTGCGCGTCAAAAGTCGCTAACGGTCACTATCAGC 483  
|||||||  
Sbjct 1 AAGCACATACGTCAAGAACCATATTGCGCGTCAAAAGTCGCTAACGGTCACTATCAGC 60  
Query 484 TAGCAAATATTCTTGTCAAAATGCTCCACTGA 517  
|||||||  
Sbjct 61 GAGCAAATATTCTTGTCAAAATGCTCCACTGA 94  
>lcl|Amplicon 299 non-redundant amplicon of 3 matches  
Length=94  
Score = 165 bits (182), Expect = 4e-42  
Identities = 93/94 (99%), Gaps = 0/94 (0%)  
Strand=Plus/Plus  
Query 424 AAGCACATACGTCAAGAACCATATTGCGCGTCAAAAGTCGCTAACGGTCACTATCAGC 483  
|||||||  
Sbjct 1 AAGCAGATACGTCAAGAACCATATTGCGCGTCAAAAGTCGCTAACGGTCACTATCAGC 60  
Query 484 TAGCAAATATTCTTGTCAAAATGCTCCACTGA 517  
|||||||  
Sbjct 61 TAGCAAATATTCTTGTCAAAATGCTCCACTGA 94  
>lcl|Amplicon 652 non-redundant amplicon of 6 matches  
Length=94  
Score = 161 bits (178), Expect = 5e-41  
Identities = 93/94 (99%), Gaps = 1/94 (1%)  
Strand=Plus/Plus  
Query 424 AAGCACATACGTCAAGAACCATATTGCGCGTCAAAAGTCGCTAACGGTCACTATCAGC 483  
|||||||  
Sbjct 1 AAGCACATACGTCAAGAACCATATTGCGCGTCAAAAGTCGCTAACGGTCACTATCAGC 60  
Query 484 TAGCAAATATTTC-TTGTCAAAATGCTCCACTG 516  
|||||||

Sbjct 61 TAGCAAATTTCTTGCAAAAATGCTCCACTG 94  
>lcl|Amplicon\_1 non-redundant amplicon of 25856 matches  
Length=84  
Score = 152 bits (168), Expect = 2e-38  
Identities = 84/84 (100%), Gaps = 0/84 (0%)  
Strand=Plus/Plus  
Score = 152 bits (168), Expect = 2e-38  
Identities = 84/84 (100%), Gaps = 0/84 (0%)  
Strand=Plus/Plus  
Query 1957 CATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATA 2016  
||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 CATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATA 60  
Query 2017 CATTAAACGCGATAGAAAACAA 2040  
||||||||||||||||||||  
Sbjct 61 CATTAAACGCGATAGAAAACAA 84  
>lcl|Amplicon\_229 non-redundant amplicon of 16 matches Length=84  
Score = 150 bits (166), Expect = 9e-38  
Identities = 83/83 (100%), Gaps = 0/83 (0%)  
Strand=Plus/Plus  
Query 1957 CATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATA 2016  
||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 CATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATA 60  
Query 2017 CATTAAACGCGATAGAAAACA 2039  
||||||||||||||||||||  
Sbjct 61 CATTAAACGCGATAGAAAACA 83  
>lcl|Amplicon\_750 non-redundant amplicon of 4 matches  
Length=84  
Score = 147 bits (162), Expect = 1e-36  
Identities = 83/84 (99%), Gaps = 0/84 (0%)  
Strand=Plus/Plus  
Query 1957 CATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATA 2016  
||||||||||||||||||||||||||||||||||||||||  
Sbjct 1 CATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATA 60  
Query 2017 CATTAAACGCGATAGAAAACAA 2040  
||||||||||||||||||||  
Sbjct 61 CATTAAACGCGATAGAAAACAA 84  
>lcl|Amplicon\_520 non-redundant amplicon of 2 matches Length=84  
Score = 147 bits (162), Expect = 1e-36  
Identities = 83/84 (99%), Gaps = 0/84 (0%)  
Strand=Plus/Plus  
Query 1957 CATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATA 2016  
||||||||||||||||||||||||||||||||||||  
Sbjct 1 CATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATA 60  
Query 2017 CATTAAACGCGATAGAAAACAA 2040  
||||||||||||||||||||  
Sbjct 61 CATTAAACGCGATAGAAAACAA 84  
>lcl|Amplicon\_398 non-redundant amplicon of 12 matches Length=84  
Score = 147 bits (162), Expect = 1e-36  
Identities = 83/84 (99%), Gaps = 0/84 (0%)  
Strand=Plus/Plus  
Query 1957 CATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATA 2016  
||||||||||||||||||||||||||||||||||||  
Sbjct 1 CATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGACTCCCGCAATTATA 60  
Query 1957 CATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATA 2016  
||||||||||||||||||||||||||||||||||||  
Sbjct 1 CATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGACTCCCGCAATTATA 60  
Query 2017 CATTAAACGCGATAGAAAACAA 2040  
||||||||||||||||||||  
Sbjct 61 CATTAAACGCGATAGAAAACAA 84  
>lcl|Amplicon\_427 non-redundant amplicon of 24 matches Length=84  
Score = 147 bits (162), Expect = 1e-36  
Identities = 83/84 (99%), Gaps = 0/84 (0%)  
Strand=Plus/Plus  
Query 1957 CATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATA 2016  
||||||||||||||||||||||||||||||||  
Sbjct 1 CATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATA 60  
Query 2017 CATTAAACGCGATAGAAAACAA 2040  
||||||||||||||||||||  
Sbjct 61 CATTAAACGCGATAGAAAACAA 84

## &gt;lcl|Amplicon\_405 non-redundant amplicon of 96 matches

Length=84

Score = 147 bits (162), Expect = 1e-36  
Identities = 83/84 (99%), Gaps = 0/84 (0%)

Strand=Plus/Plus

Query 1957 CATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATA 2016

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

Sbjct 1 CATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATA 60

Query 2017 CATTAAATACCGCGATAGAAAACAA 2040

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

Sbjct 61 CATTAAATACCGCGATAGAAGACAA 84

## &gt;lcl|Amplicon\_527 non-redundant amplicon of 8 matches

Length=84

Score = 143 bits (158), Expect = 1e-35  
Identities = 83/84 (99%), Gaps = 1/84 (1%)

Strand=Plus/Plus

Query 1957 CATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATA 2016

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

Sbjct 1 CATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATA 60

Query 2017 CATTAAATA-C CGCGATAGAAAACA 2039

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

Sbjct 61 CATTAAATACCGCGATAGAAAACA 84

## &gt;lcl|Amplicon\_474 non-redundant amplicon of 2 matches Length=84

Score = 143 bits (158), Expect = 1e-35  
Identities = 82/84 (98%), Gaps = 0/84 (0%)

Strand=Plus/Plus

Query 1957 CATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATA 2016

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

Sbjct 1 CATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATAATA 60

Query 2017 CATTAAATACCGCGATAGAAAACAA 2040

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

Sbjct 1 CATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATAATA 60

Query 2017 CATTAAATACCGCGATAGAAAACAA 2040

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

Sbjct 61 CATTAAATACCGCGATAGAAAACAA 84

## &gt;lcl|Amplicon\_337 non-redundant amplicon of 10 matches Length=83

Score = 143 bits (158), Expect = 1e-35  
Identities = 83/84 (99%), Gaps = 1/84 (1%)

Strand=Plus/Plus

Query 1957 CATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATA 2016

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

Sbjct 1 CATGTAATGCATGACGTTATTATGAGATGGGTTTT-ATGATTAGAGTCCCGCAATTATA 59

Query 2017 CATTAAATACCGCGATAGAAAACAA 2040

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

Sbjct 60 CATTAAATACCGCGATAGAAAACAA 83

## &gt;lcl|Amplicon\_39 non-redundant amplicon of 98 matches Length=83

Score = 143 bits (158), Expect = 1e-35  
Identities = 83/84 (99%), Gaps = 1/84 (1%)

Strand=Plus/Plus

Query 1957 CATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATA 2016

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

Sbjct 1 CATGTAATGCATGACGTTATTATGAGATGGGTTTT-TGATTAGAGTCCCGCAATTATA 59

Query 2017 CATTAAATACCGCGATAGAAAACAA 2040

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

Sbjct 60 CATTAAATACCGCGATAGAAAACAA 83

## &gt;lcl|Amplicon\_488 non-redundant amplicon of 2 matches

Length=84

Score = 140 bits (154), Expect = 2e-34  
Identities = 77/77 (100%), Gaps = 0/77 (0%)

Strand=Plus/Plus

Query 1964 TGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACATTAA 2023

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

Sbjct 8 TGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACATTAA 67

Query 2024 TACCGCGATAGAAAACAA 2040

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

Sbjct 68 TACCGCGATAGAAAACAA 84

## &gt;lcl|Amplicon\_523 non-redundant amplicon of 4 matches

Length=84

Score = 138 bits (152), Expect = 5e-34

Identities = 81/84 (96%), Gaps = 0/84 (0%)

Strand=Plus/Plus

Query 1957 CATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATA 2016  
||||||||||||||||||||||||||||||||||||| | |||| | |||||

Sbjct 1 CATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTACACTCCCCAATTATA 60  
|||||||||||||||||||||

Query 2017 CATTAAATACCGCGATAGAAAACAA 2040  
|||||||||||||||||

Sbjct 61 CATTAAATACCGCGATAGAAAACAA 84  
|||||||||||||||||

Sbjct 61 CATTAAATACCGCGATAGAAAACAA 84  
|||||||||||||||||

>lcl|Amplicon 494 non-redundant amplicon of 2 matches Length=82  
Score = 131 bits (144), Expect = 8e-32  
Identities = 80/84 (95%), Gaps = 2/84 (2%)

Strand=Plus/Plus

Query 1957 CATGTAATGCATGACGTTATTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATA 2016  
||||||||||||||||||||||||| | |||| | |||||

Sbjct 1 CATGTAATGCATGACGTTATTATGAGATGGGTTTTA--GATTGGAGTCCCGCAATTATA 58  
|||||||||||||||||

Query 2017 CATTAAATACCGCGATAGAAAACAA 2040  
|||||||||||||||||

Sbjct 59 CATTAAATACCGCGATAGAAAACAA 82  
|||||||||||||||||

>lcl|Amplicon 589 non-redundant amplicon of 2 matches Length=95  
Score = 127 bits (140), Expect = 1e-30  
Identities = 72/73 (99%), Gaps = 0/73 (0%)

Strand=Plus/Minus

Query 305 GGGAGTCACGTTATGACCCCCGCCGATGACGCCGGACAAGCCGTTTACGTTTGGAACTG 364  
||||||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||

Sbjct 73 GGGAGTCACGTTACGACCCCCGCCGATGACGCCGGACAAGCCGTTTACGTTTGGAACTG 14  
||||||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||

Query 365 ACAGAACCGCAAC 377  
||||||||| | |||||

Sbjct 13 ACAGAACCGCAAC 1  
|

>lcl|Amplicon 2 non-redundant amplicon of 12842 matches

Length=69

Score = 125 bits (138), Expect = 3e-30

Identities = 69/69 (100%), Gaps = 0/69 (0%)

Strand=Plus/Plus

Query 1996 GATTAGAGTCCCGCAATTATACATTAAATACCGCGATAGAAAACAAATAGCGCGCAA 2055  
||||||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||

Sbjct 1 GATTAGAGTCCCGCAATTATACATTAAATACCGCGATAGAAAACAAATAGCGCGCAA 60  
||||||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||

Query 2056 CTAGGATAA 2064  
|||||

Sbjct 61 CTAGGATAA 69  
|

>lcl|Amplicon 95 non-redundant amplicon of 18 matches

Length=87

Score = 122 bits (134), Expect = 4e-29

Identities = 81/85 (95%), Gaps = 4/85 (5%)

Strand=Plus/Plus

Query 1957 CATGTAATGCATGACGTTATTATGAGAT-GGGTTTTATGATT-AGAGT-CCCGCAATT 2013  
||||||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||

Sbjct 1 CATGTAATGCATGACGTTATTATGAGATGGGGTTTTATGATTAAGAGTCCCGCAATT 60  
||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||

Query 2014 ATACA-TTTAATACCGCGATAGAAAA 2037  
||||| | ||||| | ||||| | |||||

Sbjct 61 ATACATTAAATACCGCGATAGAAAA 85  
|

>lcl|Amplicon 225 non-redundant amplicon of 12 matches Length=69

>lcl|Amplicon 225 non-redundant amplicon of 12 matches Length=69

Score = 122 bits (134), Expect = 4e-29

Identities = 68/69 (99%), Gaps = 0/69 (0%)

Strand=Plus/Plus

Query 1996 GATTAGAGTCCCGCAATTATACATTAAATACCGCGATAGAAAACAAATAGCGCGCAA 2055  
||||||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||

Sbjct 1 GATTAGAGTCCCGCAATTATACATTAAATACCGCGATAGAAAACAAATAGCGCGCAA 60  
||||||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||

Query 2056 CTAGGATAA 2064  
|||||

Sbjct 61 CTAGGATAA 69  
|

>lcl|Amplicon 655 non-redundant amplicon of 2 matches Length=69

Score = 120 bits (132), Expect = 1e-28

Identities = 68/69 (99%), Gaps = 0/69 (0%)

Strand=Plus/Plus

Query 1996 GATTAGAGTCCCGCAATTATACATTAAATACCGCGATAGAAAACAAATAGCGCGCAA 2055  
||||||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||

Sbjct 1 GATTAGAGTCCCGCAATTATACATTAAATACCGGATAGAAAACAAATATAGCGCGAAA 60  
Query 2056 CTAGGATAA 2064  
|||||||  
Sbjct 61 CTAGGATAA 69  
>lcl|Amplicon 609 non-redundant amplicon of 5 matches  
Length=69  
Score = 120 bits (132), Expect = 1e-28  
Identities = 68/69 (99%), Gaps = 0/69 (0%)  
Strand=Plus/Plus  
Query 1996 GATTAGAGTCCCGCAATTATACATTAAATACCGGATAGAAAACAAATATAGCGCGAAA 2055  
|||||||  
Sbjct 1 GATTAGAGTCCCGCAATTATACATTAAATACACGGATAGAAAACAAATATAGCGCGAAA 60  
Query 2056 CTAGGATAA 2064  
|||||||  
Sbjct 61 CTAGGATAA 69  
>lcl|Amplicon 475 non-redundant amplicon of 1 matches  
Length=69  
Score = 120 bits (132), Expect = 1e-28  
Identities = 68/69 (99%), Gaps = 0/69 (0%)  
Strand=Plus/Plus  
Query 1996 GATTAGAGTCCCGCAATTATACATTAAATACCGGATAGAAAACAAATATAGCGCGAAA 2055  
|||||||  
Sbjct 1 GATTAGAGTCCCGCAATAATACATTAAATACCGGATAGAAAACAAATATAGCGCGAAA 60  
Query 2056 CTAGGATAA 2064  
|||||||  
Sbjct 61 CTAGGATAA 69  
>lcl|Amplicon 418 non-redundant amplicon of 3 matches Length=69  
Score = 120 bits (132), Expect = 1e-28  
Identities = 68/69 (99%), Gaps = 0/69 (0%)  
Length=69  
Score = 120 bits (132), Expect = 1e-28  
Identities = 68/69 (99%), Gaps = 0/69 (0%)  
Strand=Plus/Plus  
Query 1996 GATTAGAGTCCCGCAATTATACATTAAATACCGGATAGAAAACAAATATAGCGCGAAA 2055  
|||||||  
Sbjct 1 GATTAGAGTCCCGCAATTATACATTAAATACCGGATAGAAAACAAATATAGCGCGAAA 60  
Query 2056 CTAGGATAA 2064  
|| | | | |  
Sbjct 61 CTGGGATAA 69  
>lcl|Amplicon 230 non-redundant amplicon of 8 matches Length=69  
Score = 120 bits (132), Expect = 1e-28  
Identities = 68/69 (99%), Gaps = 0/69 (0%)  
Strand=Plus/Plus  
Query 1996 GATTAGAGTCCCGCAATTATACATTAAATACCGGATAGAAAACAAATATAGCGCGAAA 2055  
|||||||  
Sbjct 1 GATTAGAGTCCCGCAATTATACATTAAATACCGGATAGAAAACAGAATATAGCGCGAAA 60  
Query 2056 CTAGGATAA 2064  
| | | | | | | |  
Sbjct 61 CTAGGATAA 69  
>lcl|Amplicon 406 non-redundant amplicon of 48 matches  
Length=69  
Score = 120 bits (132), Expect = 1e-28  
Identities = 68/69 (99%), Gaps = 0/69 (0%)  
Strand=Plus/Plus  
Query 1996 GATTAGAGTCCCGCAATTATACATTAAATACCGGATAGAAAACAAATATAGCGCGAAA 2055  
|||||||  
Sbjct 1 GATTAGAGTCCCGCAATTATACATTAAATACCGGATAGAAAGACAAATATAGCGCGAAA 60  
Query 2056 CTAGGATAA 2064  
|||||||  
Sbjct 61 CTAGGATAA 69  
>lcl|Amplicon 399 non-redundant amplicon of 6 matches Length=69  
Score = 120 bits (132), Expect = 1e-28  
Identities = 68/69 (99%), Gaps = 0/69 (0%)  
Strand=Plus/Plus  
Query 1996 GATTAGAGTCCCGCAATTATACATTAAATACCGGATAGAAAACAAATATAGCGCGAAA 2055  
|||||||  
Sbjct 1 GATTAGACTCCCGCAATTATACATTAAATACCGGATAGAAAACAAATATAGCGCGAAA 60  
Query 2056 CTAGGATAA 2064

|||||||  
Sbjct 61 CTTAGGATAA 69  
>lcl|Amplicon\_54 non-redundant amplicon of 120 matches Length=69  
Score = 120 bits (132), Expect = 1e-28  
Identities = 68/69 (99%), Gaps = 0/69 (0%)  
Strand=Plus/Plus  
Query 1996 GATTAGAGTCCCGCAATTATACATTAAATACCGCGATAGAAAACAAAATATAGCGCGCAA 2055  
Identities = 68/69 (99%), Gaps = 0/69 (0%)  
Strand=Plus/Plus  
Query 1996 GATTAGAGTCCCGCAATTATACATTAAATACCGCGATAGAAAACAAAATATAGCGCGCAA 2055  
|||||||  
Sbjct 1 GATTAGAGTCCCGCAATTATACATTAAATACCGCGATAGAAAACAAAATATAGCGCGCAAC 60  
Query 2056 CTTAGGATAA 2064  
|||||||  
Sbjct 61 CTTAGGATAA 69  
>lcl|Amplicon\_420 non-redundant amplicon of 7 matches  
Length=69  
Score = 120 bits (132), Expect = 1e-28  
Identities = 66/66 (100%), Gaps = 0/66 (0%)  
Strand=Plus/Plus  
Query 1996 GATTAGAGTCCCGCAATTATACATTAAATACCGCGATAGAAAACAAAATATAGCGCGCAA 2055  
|||||||  
Sbjct 1 GATTAGAGTCCCGCAATTATACATTAAATACCGCGATAGAAAACAAAATATAGCGCGCAA 60  
Query 2056 CTAGGA 2061  
|||||||  
Sbjct 61 CTAGGA 66  
>lcl|Amplicon\_528 non-redundant amplicon of 4 matches Length=70  
Score = 118 bits (130), Expect = 5e-28  
Identities = 69/70 (99%), Gaps = 1/70 (1%)  
Strand=Plus/Plus  
Query 1996 GATTAGAGTCCCGCAATTATACATTAAATAC-GCGATAGAAAACAAAATATAGCGCGCAA 2054  
|||||||  
Sbjct 1 GATTAGAGTCCCGCAATTATACATTAAATACCGCGATAGAAAACAAAATATAGCGCGCAA 60  
Query 2055 ACTAGGATAA 2064  
|||||||  
Sbjct 61 ACTAGGATAA 70  
>lcl|Amplicon\_110 non-redundant amplicon of 88 matches Length=86  
Score = 118 bits (130), Expect = 5e-28  
Identities = 65/65 (100%), Gaps = 0/65 (0%)  
Strand=Plus/Plus  
Query 242 TCAAAACACTGATAGTTAAACTGAAGGCAGAACGACAATCTGATCATGAGCGGAGAAT 301  
|||||||  
Sbjct 22 TCAAAACACTGATAGTTAAACTGAAGGCAGAACGACAATCTGATCATGAGCGGAGAAT 81  
Query 302 TAAGG 306  
|||||||  
Sbjct 82 TAAGG 86  
>lcl|Amplicon\_390 non-redundant amplicon of 5 matches Length=69  
Score = 116 bits (128), Expect = 2e-27  
Identities = 68/69 (99%), Gaps = 1/69 (1%)  
Strand=Plus/Plus  
Query 1996 GATTAGAGTCCCGCAATTATACATTAAATACCGCGATAGAAAACAAAATATAG-CGCGCAA 2054  
|||||||  
Sbjct 1 GATTAGAGTCCCGCAATTATACATTAAATACCGCGATAGAAAACAAAATATAGCGCGCAA 60  
Query 1996 GATTAGAGTCCCGCAATTATACATTAAATACCGCGATAGAAAACAAAATATAG-CGCGCAA 2054  
|||||||  
Sbjct 1 GATTAGAGTCCCGCAATTATACATTAAATACCGCGATAGAAAACAAAATATAGCGCGCAA 60  
Query 2055 ACTAGGATA 2063  
|||||||  
Sbjct 61 ACTAGGATA 69  
>lcl|Amplicon\_271 non-redundant amplicon of 17 matches Length=70  
Score = 113 bits (124), Expect = 2e-26  
Identities = 67/70 (96%), Gaps = 0/70 (0%)  
Strand=Plus/Plus  
Query 1996 GATTAGAGTCCCGCAATTATACATTAAATACCGCGATAGAAAACAAAATATAGCGCGCAA 2055  
|||||||  
Sbjct 1 GATTAGAGTCCCGCAATTATACATTAAATACCGCGATAGAAAACAAAATTATAGCGCGCAA 60  
Query 2056 CTAGGATAAA 2065  
|||||||

Sbjct 61 CTTAGGATAAA 70  
**>lcl|Amplicon\_115 non-redundant amplicon of 13 matches** Length=76  
Score = 111 bits (122), Expect = 8e-26  
Identities = 64/66 (97%), Gaps = 0/66 (0%)  
Strand=Plus/Plus  
Query 257 TTAAACTGAAGGCAGGGAAACGACAATCTGATCATGAGCGGAGAATTAAAGGGAGTCACGTT 316  
||| ||| |||||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 11 TTCAACAGAAGGCAGGGAAACGACAATCTGATCATGAGCGGAGAATTAAAGGGAGTCACGTT 70  
Query 317 ATGACC 322  
|||||||  
Sbjct 71 ATGACC 76  
**>lcl|Amplicon\_88 non-redundant amplicon of 11 matches**  
Length=87  
Score = 86.0 bits (94), Expect = 3e-18  
Identities = 47/47 (100%), Gaps = 0/47 (0%)  
Strand=Plus/Plus  
Query 242 TCAAAACACTGATAGTTAAACTGAAGGCAGGGAAACGACAATCTGATC 288  
|||||||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 19 TCAAAACACTGATAGTTAAACTGAAGGCAGGGAAACGACAATCTGATC 65  
**>lcl|Amplicon\_156 non-redundant amplicon of 30 matches**  
Length=139  
Score = 84.2 bits (92), Expect = 1e-17  
Identities = 46/46 (100%), Gaps = 0/46 (0%)  
Strand=Plus/Plus  
Query 243 CAAACACTGATAGTTAAACTGAAGGCAGGGAAACGACAATCTGATC 288  
|||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 37 CAAACACTGATAGTTAAACTGAAGGCAGGGAAACGACAATCTGATC 82  
**>lcl|Amplicon\_265 non-redundant amplicon of 12 matches**  
Length=101  
Score = 82.4 bits (90), Expect = 4e-17  
Identities = 45/45 (100%), Gaps = 0/45 (0%)  
Score = 82.4 bits (90), Expect = 4e-17  
Identities = 45/45 (100%), Gaps = 0/45 (0%)  
Strand=Plus/Plus  
Query 242 TCAAAACACTGATAGTTAAACTGAAGGCAGGGAAACGACAATCTGA 286  
|||||||||||||||||||||||||||||||||||||||||||||||  
Sbjct 57 TCAAAACACTGATAGTTAAACTGAAGGCAGGGAAACGACAATCTGA 101  
Lambda K H  
0.634 0.408 0.912  
Gapped  
Lambda K H  
0.625 0.410 0.780  
Effective search space used: 239905000

**Query=pSsuAra\_Arabidopsis\_thaliana\_-\_X13611.1**

Length=2821

	Score	E
	(Bits)	Value
lcl Amplicon_159 non-redundant amplicon of 11 matches	<u>176</u>	2e-45
<b>&gt;lcl Amplicon_159 non-redundant amplicon of 11 matches</b>		
Length=139		
Score = 176 bits (194), Expect = 2e-45		
Identities = 97/97 (100%), Gaps = 0/97 (0%)		
Strand=Plus/Plus		
Query 885 CATAAAGGAAGATGGAGACTTGAGAACGtttttttggacttttgttagcttggtggcg 944		
Sbjct 1 CATAAAGGAAGATGGAGACTTGAGAACGtttttttggacttttgttagcttggtggcg 60		
Query 945 tttttttttttGATCAATAACTTGTGGCTTATG 981		
Sbjct 61 TTTTTTTTTTGATCAATAACTTGTGGCTTATG 97		
Lambda K H		
0.634 0.408 0.912		
Gapped		
Lambda K H		
0.625 0.410 0.780		
Effective search space used: 268693600		

**Query= pTA29\_Nicotiana\_tabacum\_-\_X52283.1**

Length=3021

	Score	E
	(Bits)	Value
Sequences producing significant alignments:		
lcl Amplicon_158 non-redundant amplicon of 22 matches	<u>113</u>	3e-26
lcl Amplicon_158 non-redundant amplicon of 22 matches	<u>113</u>	3e-26
<b>&gt;lcl Amplicon_158 non-redundant amplicon of 22 matches</b>		
Length=130		
Score = 113 bits (124), Expect = 3e-26		
Identities = 62/62 (100%), Gaps = 0/62 (0%)		
Strand=Plus/Minus		
Query 17 TCGATTATATTAGGGATTTACACAAATAGCCGGCTATATTAATTGTTACTTTCTA 76		
Sbjct 62 TCGATTATATTAGGGATTTACACAAATAGCCGGCTATATTAATTGTTACTTTCTA 3		
Query 77 AC 78		
Sbjct 2 AC 1		
Lambda K H		
0.634 0.408 0.912		
Gapped		
Lambda K H		
0.625 0.410 0.780		
Effective search space used: 287886000		

**Query= pUbiZM1\_Zea\_mays\_-\_S94464.1**

Length=3841

\*\*\*\*\* No hits found \*\*\*\*\*

Lambda	K	H
0.634	0.408	0.912

Gapped

Lambda	K	H
0.625	0.410	0.780

Effective search space used: 363236547

**Query= TSF1\_Arabidopsis\_thaliana\_-\_NC\_003070.9**

Length=5616

\*\*\*\*\* No hits found \*\*\*\*\*

Lambda	K	H
0.634	0.408	0.912

Gapped

Lambda	K	H
0.625	0.410	0.780

Effective search space used: 532062122

Lambda	K	H
0.625	0.410	0.780

Effective search space used: 532062122

Database: GMOMETHODS non redundant amplicon set  
849 sequences; 113,791 total letters

Database: GMOMETHODS non redundant amplicon set

Posted date: Apr 20, 2016 9:31 AM

Number of letters in database: 113,791

Number of sequences in database: 849

Matrix: blastn matrix 2 -3

Gap Penalties: Existence: 5, Extension: 2

**Reference:**

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