

## 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

		Score	E
		(Bits)	Value
Sequences producing significant alignments:			
lcl Amplicon_73	non-redundant amplicon of 390 matches	<u>354</u>	3e-99
lcl Amplicon_74	non-redundant amplicon of 422 matches	<u>141</u>	3e-35
lcl Amplicon_83	non-redundant amplicon of 103 matches	<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	AAGCCTCAACAAGGTCAGGGTACAGAGTCTCCAAACCATTAGCCAAAAGCTACAGGAGAT	73
Sbjct	1	AAGCCTCAACAAGGTCAGGGTACAGAGTCTCCAAACCATTAGCCAAAAGCTACAGGAGAT	60
Query	74	CAATGAAGAATCTTCAATCAAAGTAAACTACTGTTCCAGCACATGCATCATGGTCAGTAA	133
Sbjct	61	CAATGAAGAATCTTCAATCAAAGTAAACTACTGTTCCAGCACATGCATCATGGTCAGTAA	120
Query	134	GTTTCAGAAAAAGACATCCACCGAAGACTTAAAGTTAGTGGGCATCTTTGAAAGTAATCT	193
Sbjct	121	GTTTCAGAAAAAGACATCCACCGAAGACTTAAAGTTAGTGGGCATCTTTGAAAGTAATCT	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	CAAAATAACGTGGAAAAGAGCTGTCCTGACAGCCCACTACTAATGCGTATGACGAACGC	386
Sbjct	1	CAAAATAACGTGGAAAAGAGCTGTCCTGACAGCCCACTACTAATGCGTATGACGAACGC	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	CAAAATAACGTGGAAAAGAGCTGTCCTGACAGCCCACTACTAATGCGTATGACGAACGC	386
Sbjct	1	CAAAATAACGTGGAAAAGAGCTGTCCTGACAGCCCACTACTAATGCGTATGACGAACGC	60
Query	327	CAAAATAACGTGGAAAAGAGCTGTCCTGACAGCCCACTACTAATGCGTATGACGAACGC	386
Sbjct	1	CAAAATAACGTGGAAAAGAGCTGTCCTGACAGCCCACTACTAATGCGTATGACGAACGC	60
Query	387	AGTGACGACCACAAA 402	
Sbjct	61	AGTGACGACCACAAA 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

		Score	E
		(Bits)	Value
Sequences producing significant alignments:			
lcl Amplicon_73	non-redundant amplicon of 390 matches	<u>354</u>	1e-98
lcl Amplicon_74	non-redundant amplicon of 422 matches	<u>141</u>	1e-34
lcl Amplicon_83	non-redundant amplicon of 103 matches	<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	AAGCCTCAACAAGGTCAGGGTACAGAGTCTCCAAACCATTAGCCAAAAGCTACAGGAGAT	6556

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Sbjct 1 AAGCCTCAACAAGGTCAGGGTACAGAGTCTCCAAACCATTAGCCAAAAGCTACAGGAGAT 60
Query 6557 CAATGAAGAATCTTCAATCAAAGTAAACTACTGTTCCAGCACATGCATCATGGTCAGTAA 6616
|||||
Sbjct 61 CAATGAAGAATCTTCAATCAAAGTAAACTACTGTTCCAGCACATGCATCATGGTCAGTAA 120
Query 6617 GTTTCAGAAAAAGACATCCACCGAAGACTTAAAGTTAGTGGGCATCTTTGAAAGTAATCT 6676
|||||
Sbjct 121 GTTTCAGAAAAAGACATCCACCGAAGACTTAAAGTTAGTGGGCATCTTTGAAAGTAATCT 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 CAAAATAACGTGGAAAAGAGCTGTCTTGACAGCCCACTCACTAATGCGTATGACGAACGC 6869
|||||
Sbjct 1 CAAAATAACGTGGAAAAGAGCTGTCTTGACAGCCCACTCACTAATGCGTATGACGAACGC 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 CAAAATAACGTGGAAAAGAGCTGTCTTGACAGCCCACTCACTAATGCGTATGACGAACGC 6869
|||||
Sbjct 1 CAAAATAACGTGGAAAAGAGCTGTCTTGACAGCCCACTCACTAATGCGTATGACGAACGC 60
Query 6870 AGTGACGACCACAAAA 6885
|||||
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: 734367473

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

Length=8024

Sequences producing significant alignments:	Score (Bits)	E Value
<a href="#">lcl Amplicon_47 non-redundant amplicon of 6422 matches</a>	<a href="#">352</a>	4e-98
<a href="#">lcl Amplicon_194 non-redundant amplicon of 40 matches</a>	<a href="#">349</a>	5e-97
<a href="#">lcl Amplicon_152 non-redundant amplicon of 66 matches</a>	<a href="#">349</a>	5e-97
<a href="#">lcl Amplicon_723 non-redundant amplicon of 2 matches</a>	<a href="#">347</a>	2e-96
<a href="#">lcl Amplicon_644 non-redundant amplicon of 4 matches</a>	<a href="#">347</a>	2e-96
<a href="#">lcl Amplicon_593 non-redundant amplicon of 2 matches</a>	<a href="#">347</a>	2e-96
<a href="#">lcl Amplicon_509 non-redundant amplicon of 4 matches</a>	<a href="#">347</a>	2e-96
<a href="#">lcl Amplicon_97 non-redundant amplicon of 12 matches</a>	<a href="#">347</a>	2e-96
<a href="#">lcl Amplicon_78 non-redundant amplicon of 6 matches</a>	<a href="#">347</a>	2e-96
<a href="#">lcl Amplicon_57 non-redundant amplicon of 14 matches</a>	<a href="#">347</a>	2e-96
<a href="#">lcl Amplicon_411 non-redundant amplicon of 10 matches</a>	<a href="#">347</a>	2e-96
<a href="#">lcl Amplicon_346 non-redundant amplicon of 12 matches</a>	<a href="#">347</a>	2e-96
<a href="#">lcl Amplicon_339 non-redundant amplicon of 6 matches</a>	<a href="#">347</a>	2e-96
<a href="#">lcl Amplicon_305 non-redundant amplicon of 6 matches</a>	<a href="#">347</a>	2e-96
<a href="#">lcl Amplicon_739 non-redundant amplicon of 4 matches</a>	<a href="#">347</a>	2e-96
<a href="#">lcl Amplicon_292 non-redundant amplicon of 6 matches</a>	<a href="#">345</a>	6e-96
<a href="#">lcl Amplicon_301 non-redundant amplicon of 24 matches</a>	<a href="#">345</a>	6e-96
<a href="#">lcl Amplicon_296 non-redundant amplicon of 4 matches</a>	<a href="#">343</a>	2e-95
<a href="#">lcl Amplicon_673 non-redundant amplicon of 4 matches</a>	<a href="#">343</a>	2e-95
<a href="#">lcl Amplicon_500 non-redundant amplicon of 10 matches</a>	<a href="#">343</a>	2e-95
<a href="#">lcl Amplicon_68 non-redundant amplicon of 12 matches</a>	<a href="#">343</a>	2e-95
<a href="#">lcl Amplicon_201 non-redundant amplicon of 182 matches</a>	<a href="#">343</a>	2e-95
<a href="#">lcl Amplicon_735 non-redundant amplicon of 4 matches</a>	<a href="#">343</a>	2e-95
<a href="#">lcl Amplicon_674 non-redundant amplicon of 6 matches</a>	<a href="#">338</a>	9e-94
<a href="#">lcl Amplicon_671 non-redundant amplicon of 2 matches</a>	<a href="#">338</a>	9e-94
<a href="#">lcl Amplicon_383 non-redundant amplicon of 18 matches</a>	<a href="#">338</a>	9e-94

lcl Amplicon_218	non-redundant amplicon of 8 matches	<u>338</u>	9e-94
lcl Amplicon_33	non-redundant amplicon of 2740 matches	<u>338</u>	9e-94
lcl Amplicon_93	non-redundant amplicon of 62 matches	<u>336</u>	3e-93
lcl Amplicon_218	non-redundant amplicon of 8 matches	<u>338</u>	9e-94
lcl Amplicon_33	non-redundant amplicon of 2740 matches	<u>338</u>	9e-94
lcl Amplicon_93	non-redundant amplicon of 62 matches	<u>336</u>	3e-93
lcl Amplicon_789	non-redundant amplicon of 76 matches	<u>334</u>	1e-92
lcl Amplicon_577	non-redundant amplicon of 2 matches	<u>334</u>	1e-92
lcl Amplicon_501	non-redundant amplicon of 2 matches	<u>334</u>	1e-92
lcl Amplicon_273	non-redundant amplicon of 6 matches	<u>334</u>	1e-92
lcl Amplicon_90	non-redundant amplicon of 6 matches	<u>334</u>	1e-92
lcl Amplicon_71	non-redundant amplicon of 8 matches	<u>334</u>	1e-92
lcl Amplicon_67	non-redundant amplicon of 48 matches	<u>334</u>	1e-92
lcl Amplicon_428	non-redundant amplicon of 8 matches	<u>334</u>	1e-92
lcl Amplicon_200	non-redundant amplicon of 112 matches	<u>334</u>	1e-92
lcl Amplicon_327	non-redundant amplicon of 12 matches	<u>334</u>	1e-92
lcl Amplicon_50	non-redundant amplicon of 308 matches	<u>334</u>	1e-92
lcl Amplicon_12	non-redundant amplicon of 4816 matches	<u>334</u>	1e-92
lcl Amplicon_279	non-redundant amplicon of 28 matches	<u>333</u>	4e-92
lcl Amplicon_353	non-redundant amplicon of 6 matches	<u>333</u>	4e-92
lcl Amplicon_564	non-redundant amplicon of 4 matches	<u>331</u>	1e-91
lcl Amplicon_174	non-redundant amplicon of 78 matches	<u>331</u>	1e-91
lcl Amplicon_615	non-redundant amplicon of 4 matches	<u>329</u>	5e-91
lcl Amplicon_266	non-redundant amplicon of 178 matches	<u>329</u>	5e-91
lcl Amplicon_42	non-redundant amplicon of 18 matches	<u>329</u>	5e-91
lcl Amplicon_358	non-redundant amplicon of 12 matches	<u>327</u>	2e-90
lcl Amplicon_503	non-redundant amplicon of 2 matches	<u>327</u>	2e-90
lcl Amplicon_166	non-redundant amplicon of 44 matches	<u>327</u>	2e-90
lcl Amplicon_18	non-redundant amplicon of 166 matches	<u>327</u>	2e-90
lcl Amplicon_670	non-redundant amplicon of 2 matches	<u>325</u>	6e-90
lcl Amplicon_465	non-redundant amplicon of 4 matches	<u>325</u>	6e-90
lcl Amplicon_245	non-redundant amplicon of 52 matches	<u>325</u>	6e-90
lcl Amplicon_138	non-redundant amplicon of 132 matches	<u>325</u>	6e-90
lcl Amplicon_125	non-redundant amplicon of 742 matches	<u>325</u>	6e-90
lcl Amplicon_714	non-redundant amplicon of 2 matches	<u>324</u>	2e-89
lcl Amplicon_630	non-redundant amplicon of 8 matches	<u>324</u>	2e-89
lcl Amplicon_598	non-redundant amplicon of 2 matches	<u>324</u>	2e-89
lcl Amplicon_268	non-redundant amplicon of 190 matches	<u>324</u>	2e-89
lcl Amplicon_468	non-redundant amplicon of 2 matches	<u>322</u>	7e-89
lcl Amplicon_328	non-redundant amplicon of 18 matches	<u>322</u>	7e-89
lcl Amplicon_740	non-redundant amplicon of 4 matches	<u>322</u>	7e-89
lcl Amplicon_372	non-redundant amplicon of 6 matches	<u>320</u>	3e-88
lcl Amplicon_760	non-redundant amplicon of 2 matches	<u>318</u>	9e-88
lcl Amplicon_751	non-redundant amplicon of 2 matches	<u>318</u>	9e-88
lcl Amplicon_162	non-redundant amplicon of 20 matches	<u>318</u>	9e-88
lcl Amplicon_317	non-redundant amplicon of 10 matches	<u>318</u>	9e-88
lcl Amplicon_459	non-redundant amplicon of 2 matches	<u>316</u>	3e-87
lcl Amplicon_371	non-redundant amplicon of 6 matches	<u>316</u>	3e-87
lcl Amplicon_766	non-redundant amplicon of 4 matches	<u>315</u>	1e-86
lcl Amplicon_289	non-redundant amplicon of 6 matches	<u>313</u>	4e-86
lcl Amplicon_780	non-redundant amplicon of 2 matches	<u>306</u>	6e-84
lcl Amplicon_758	non-redundant amplicon of 2 matches	<u>306</u>	6e-84
lcl Amplicon_375	non-redundant amplicon of 6 matches	<u>289</u>	4e-79
lcl Amplicon_576	non-redundant amplicon of 2 matches	<u>289</u>	4e-79
lcl Amplicon_489	non-redundant amplicon of 4 matches	<u>286</u>	5e-78
lcl Amplicon_131	non-redundant amplicon of 36 matches	<u>260</u>	2e-70
lcl Amplicon_22	non-redundant amplicon of 18 matches	<u>257</u>	3e-69
lcl Amplicon_785	non-redundant amplicon of 2 matches	<u>248</u>	1e-66
lcl Amplicon_621	non-redundant amplicon of 10 matches	<u>248</u>	1e-66
lcl Amplicon_128	non-redundant amplicon of 54 matches	<u>248</u>	1e-66
lcl Amplicon_354	non-redundant amplicon of 5 matches	<u>241</u>	2e-64
lcl Amplicon_36	non-redundant amplicon of 2906 matches	<u>223</u>	5e-59
lcl Amplicon_458	non-redundant amplicon of 11 matches	<u>221</u>	2e-58
lcl Amplicon_261	non-redundant amplicon of 16 matches	<u>221</u>	2e-58
lcl Amplicon_119	non-redundant amplicon of 56 matches	<u>221</u>	2e-58
lcl Amplicon_249	non-redundant amplicon of 392 matches	<u>221</u>	2e-58
lcl Amplicon_178	non-redundant amplicon of 69 matches	<u>221</u>	2e-58
lcl Amplicon_712	non-redundant amplicon of 1 matches	<u>219</u>	6e-58
lcl Amplicon_484	non-redundant amplicon of 1 matches	<u>219</u>	6e-58
lcl Amplicon_226	non-redundant amplicon of 5 matches	<u>219</u>	6e-58
lcl Amplicon_48	non-redundant amplicon of 966 matches	<u>219</u>	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	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTT	7309
Sbjct	61	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTT	120
Query	7310	CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	7369
Sbjct	121	CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	180
Query	7370	CACAATCCCCTATC 7384	
Sbjct	181	CACAATCCCCTATC 195	

>[lcl|Amplicon 194 non-redundant amplicon of 40 matches](#)

Length=195

Score = 349 bits (386), Expect = 5e-97  
 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	ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTT	7309



Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCAACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 120  
 Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGGATGACG 7369  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGGATGACG 180  
 Query 7370 CACAATCCCCTACTA 7382  
 |||

Sbjct 181 CACAATCCCCTACTA 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
 |||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCCAACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 7309  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCAACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 120  
 Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGGATGACG 7369  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGGATGACG 180  
 Query 7370 CACAATCCCCTACTA 7382  
 |||  
 Sbjct 181 CACAATCCCCTACTA 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
 |||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCCAACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 7309  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCAACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 120  
 Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGGATGACG 7369  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGGATGACG 180  
 Query 7370 CACAATCCCCTACTATC 7384  
 |||  
 Sbjct 181 CACAATCCCCTACTATC 195  
 Query 7370 CACAATCCCCTACTATC 7384  
 |||  
 Sbjct 181 CACAATCCCCTACTATC 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
 |||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCCAACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 7309  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCAACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 120  
 Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGGATGACG 7369  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGGATGACG 180  
 Query 7370 CACAATCCCCTACTATC 7384  
 |||  
 Sbjct 181 CACAATCCCCTACTATC 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
 |||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60

Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 7309  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 120  
 Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGGATGACG 7369  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGGATGACG 180  
 Query 7370 CACAATCCCCTACTATC 7384  
 |

>[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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
 |||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 7309  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 120  
 Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGGATGACG 7369  
 |||  
 Sbjct 121 CAACCACGTATTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGGATGACG 180  
 Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGGATGACG 7369  
 |||  
 Sbjct 121 CAACCACGTATTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGGATGACG 180  
 Query 7370 CACAATCCCCTACTATC 7384  
 |||  
 Sbjct 181 CACAATCCCCTACTATC 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
 |||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 7309  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 120  
 Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGGATGACG 7369  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATATGATATCTCCACTGACGTAAGGGGATGACG 180  
 Query 7370 CACAATCCCCTACTATC 7384  
 |||  
 Sbjct 181 CACAATCCCCTACTATC 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
 |||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 7309  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 120  
 Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGGATGACG 7369  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGGATGACG 180  
 Query 7370 CACAATCCCCTACTATC 7384  
 |||  
 Sbjct 181 CACAATCCCCTACTATC 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
 |||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 7309





Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTT 7309  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTT 120  
 Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATAACTCCACTGACGTAAGGGATGACG 180  
 Query 7370 CACAATCCCCTACTATC 7384  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATAACTCCACTGACGTAAGGGATGACG 180  
 Query 7370 CACAATCCCCTACTATC 7384  
 |||

Sbjct 181 AACAAATCCCCTACTATC 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGGCTATCGTTCAAGATGCCTCTGCCG 60  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTT 7309  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTT 120  
 Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
 Query 7370 CACAATCCCCTACTATC 7384  
 |||  
 Sbjct 181 CACAATCCCCTACTATC 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATCTCTCTGCCG 60  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTT 7309  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTT 120  
 Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
 Query 7370 CACAATCCCCTACTATC 7384  
 |||  
 Sbjct 181 CACAATCCCCTACTATC 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 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTT 7309  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCA-CGTGGAAAAAGAAGACGTTT 119  
 Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCA-CGTGGAAAAAGAAGACGTTT 119  
 Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
 |||  
 Sbjct 120 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 179  
 Query 7370 CACAATCCCCTACTATC 7384  
 |||

Sbjct 180 CACAATCCCCTACTATC 194  
[>lcl|Amplicon 201 non-redundant amplicon of 182 matches](#)

Length=195  
 Score = 343 bits (380), Expect = 2e-95



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

Query 7190 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGCCTCTGCCG 60
Query 7250 ACAGTGGTCCCAAAGATGGACCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 7309
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 120
Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG 180
Query 7370 CACAATCCCACTATC 7384
Sbjct 181 CACAATCCCACTATC 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGCCTCTACCG 60
Query 7250 ACAGTGGTCCCAAAGATGGACCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 7309
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 120
Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180
Query 7370 CACAATCCCACTATC 7384
Sbjct 181 CACAATCCCACTATC 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 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGCCTCTGCCG 60
Query 7250 ACAGTGGTCCCAAAGATGGACCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 7309
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 120
Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180
Query 7370 CACAATCCCACTATC 7384
Sbjct 181 CACAATCCCACTATC 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 CTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGCCTCTGCCGACAG 64
Query 7254 TGGTCCCAAAGATGGACCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTCCAAC 7313
Sbjct 65 TGGTCCCAAAGATGGACCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTCCAAC 124
Query 7314 CACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCACA 7373
Sbjct 125 CACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCACA 184
Query 7374 ATCCCACTATC 7384
Sbjct 185 ATCCCACTATC 195

Sbjct 185 ATCCCACTATC 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	GCACCTACAAATGCCATAATTGCGATAAAGGAAAGGCTATCGTTCAAGATGCCTCTGCCG	60
Query	7250	ACAGTGGTCCCAAAGATGGACCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTT	7309
Sbjct	61	ACAGTGGTCCCAAAGATGGACCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTT	120
Query	7310	CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	7369
Sbjct	121	CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	180
Query	7370	CACAATCCCCTATC 7384	
Sbjct	181	CACAATCCCCTATC 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	GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGCCTCTGCCG	60
Query	7250	ACAGTGGTCCCAAAGATGGACCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTT	7309
Sbjct	61	ACAGTGGTCCCAAAGATGGACCCACCCACAAGGAGCATCGTGGAAAAAGAAGACGTTT	120
Query	7310	CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	7369
Sbjct	121	CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	180
Query	7370	CACAATCCCCTATC 7384	
Sbjct	181	CACAATCCCCTATC 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	GCACCTACAAATGCCATCATTGCGAAAAAGGAAAGGCTATCGTTCAAGATGCCTCTGCCG	60
Query	7250	ACAGTGGTCCCAAAGATGGACCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTT	7309
Sbjct	61	ACAGTGGTCCCAAAGATGGACCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTT	120
Query	7310	CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	7369
Sbjct	121	CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	180
Query	7310	CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	7369
Sbjct	121	CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	180
Query	7370	CACAATCCCCTATC 7384	
Sbjct	181	CACAATCCCCTATC 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	GCACCTACAAATGCCATCATTGCGATAAAGGAAAGNCTATCGTTCAAGATGCCTCTGCCG	60
Query	7250	ACAGTGGTCCCAAAGATGGACCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTT	7309
Sbjct	61	ACAGTGGTCCCAAAGATGGACCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTT	120
Query	7310	CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	7369
Sbjct	121	CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG	180



Query 7370 CACAATCCCCTACTATC 7384

|||||

Sbjct 181 CACAATCCCCTACTATC 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 ACAGTGGTCCCAAAGATGGACCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 7309

|||||

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 120

Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369

|||||

Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180

Query 7370 CACAATCCCCTACTATC 7384

|||||

Sbjct 181 CACAATCCCCTACTATC 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 ACAGTGGTCCCAAAGATGGACCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 7309

|||||

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCACCCACGAGGAGCA-CGTGGAAAAACAAGACGTTTC 119

Query 7250 ACAGTGGTCCCAAAGATGGACCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 7309

|||||

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCACCCACGAGGAGCA-CGTGGAAAAACAAGACGTTTC 119

Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369

|||||

Sbjct 120 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 179

Query 7370 CACAATCCCCTACTATC 7384

|||||

Sbjct 180 CACAATCCCCTACTATC 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 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCATTCAAGATGCCTCTGCCG 60

Query 7250 ACAGTGGTCCCAAAGATGGACCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 7309

|||||

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 120

Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369

|||||

Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180

Query 7370 CACAATCCCCTACTATC 7384

|||||

Sbjct 181 CACAATCCCCTACTATC 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 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCCCCTGCCG 60

Query 7250 ACAGTGGTCCCAAAGATGGACCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 7309

|||||

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 120

Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369

|||||

Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
 Query 7370 CACAATCCCCTATC 7384  
 |||||  
 Sbjct 181 CACAATCCCCTATC 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 ACAGTGGTCCCAAAGATGGACCCCAACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTT 7309  
 |||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCAACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTT 120  
 Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
 |||||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
 Query 7370 CACAATCCCCTATC 7382  
 |||||  
 Sbjct 181 CACAATCCCCTATC 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAAATGCCTCTGCCG 60  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCCAACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTT 7309  
 |||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCAACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTT 120  
 Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
 |||||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG 180  
 Query 7370 CACAATCCCCTATC 7384  
 |||||  
 Sbjct 181 CACAATCCCCTATC 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 ACAGTGGTCCCAAAGATGGACCCCAACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTT 7309  
 |||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCAACCCACGAGGAACATCGTGGAAAAAGAAGACGTTT 120  
 Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
 |||||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
 Query 7370 CACAATCCCCTATC 7384  
 |||||  
 Sbjct 181 CACAATCCCCTATC 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 ACAGTGGTCCCAAAGATGGACCCCAACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTT 7309  
 |||||

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 120  
 Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG 180  
 Query 7370 CACAATCCCCTACTATC 7384  
 |||

Sbjct 181 CACAATCCCCTACTATC 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGA-TGCCTCTGCC 7248  
 || |||  
 Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGAATGCCTCTGCC 60  
 Query 7249 GACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 7308  
 |||  
 Sbjct 61 GACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 120  
 Query 7309 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 7368  
 |||  
 Sbjct 121 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 180  
 Query 7369 GCACAATCCCCTACTATC 7384  
 |||  
 Sbjct 181 GCACAATCCCCTACTATC 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-GGCCATCGTTGAAGATGCCTCTGCC 7248  
 || |||  
 Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAAGGCTATCGTTCAAGATGCCTCTGCC 60  
 Query 7249 GACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 7308  
 |||  
 Sbjct 61 GACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 120  
 Query 7309 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 7368  
 |||  
 Sbjct 121 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 180  
 Query 7369 GCACAATCCCCTACTATC 7384  
 |||  
 Sbjct 181 GCACAATCCCCTACTATC 196  
 Query 7369 GCACAATCCCCTACTATC 7384  
 |||

Sbjct 181 GCACAATCCCCTACTATC 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
 |||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATGCCTCTGCCG 60  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 7309  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCNCGAGGAGCATCGTGGAAAAAGAAGACGTT 120  
 Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG 180  
 Query 7370 CACAATCCCCTACTATC 7384  
 |||  
 Sbjct 181 CACAATCCCCTACTATC 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
 || |||  
 Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGC-TCTGCCG 59

```

Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 7309
          |||
Sbjct 60 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 119
Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGGATGACG 7369
          |||
Sbjct 120 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGGATGACG 179
Query 7370 CACAATCCCCTATC 7384
          |||
Sbjct 180 CACAATCCCCTATC 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249
          |||
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60
Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 7309
          |||
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 120
Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGGATGACG 7369
          |||
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 120
Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGGATGACG 7369
          |||
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 120
Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGGATGACG 7369
          |||
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGGATGACG 180
Query 7370 CACAATCCCCTATC 7384
          |||
Sbjct 181 CACAATCCCCTATC 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249
          |||
Sbjct 1 GCTTCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTACCG 60
Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 7309
          |||
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAACATCGTGGAAAAAGAAGACGTTTC 120
Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGGATGACG 7369
          |||
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGGATGACG 180
Query 7370 CACAATCCCCTATC 7384
          |||
Sbjct 181 CACAATCCCCTATC 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249
          |||
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTGCCG 60
Query 7250 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 7309
          |||
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 120
Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGGATGACG 7369
          |||
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGGATGACG 180
Query 7370 CACAATCCCCTATC 7384
          |||
Sbjct 181 CACAATCCCCTATC 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249
          |||

```

```

Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCAT-GTTGAAGATGCCTCTGCCG 59
Query 7250 ACAGTGGTCCCAAAGATGGACCCCAACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 7309
|||||
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCAT-GTTGAAGATGCCTCTGCCG 59
Query 7250 ACAGTGGTCCCAAAGATGGACCCCAACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 7309
|||||
Sbjct 60 ACAGTGGTCCCAAAGATGGACCCCAACCCACGAGGAGCAT-GTGGAAAAAGAAGACGTT 118
Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369
|||||
Sbjct 119 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCT-CACTGACGTAAGGGATGACG 177
Query 7370 CACAATCCCCTATC 7384
|||||
Sbjct 178 CACAATCCCCTATC 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249
|||
Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATGCCTCTGCCG 60
Query 7250 ACAGTGGTCCCAAAGATGGACCCCAACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 7309
|||||
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCAACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 120
Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGG-ATGAC 7368
|||||
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 180
Query 7369 GCACAATCCCCTATC 7384
|||||
Sbjct 181 GCACAATCCCCTATC 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 CTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCGACAG 7253
|||||
Sbjct 5 CTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGCCTCTGCCGACAG 64
Query 7254 TGGTCCCAAAGATGGACCCCAACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTCCAAC 7313
|||||
Sbjct 65 TGGTCCCAAAGATGGACCCCAACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTCCAAC 124
Query 7314 CACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCACA 7373
|||||
Sbjct 125 CACGTCTTCAAAGCAAGTGGATTGATGTGATACTTCCACTGACGTAAGGGATGACGCACA 184
Query 7374 ATCCCCTATC 7384
|||||
Sbjct 185 ATCCCCTATC 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249
|||||
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATGCCTCTGCCG 60
Query 7250 ACAGTGGTCCCAAAGATGGACCCCAACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 7309
|||||
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCAACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 120
Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369
|||||
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG 180
Query 7370 CACAATCCCAC 7380
|||||
Sbjct 181 CACAATCCCAC 191

```

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

```

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

```











Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGG-ATGAC 7368  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATACTTCCACTGACGTAAGGGAATGAC 180  
 Query 7369 GCACAATCCCCTACTATC 7384  
 |||  
 Sbjct 181 GCACAATCCCCTACTATC 196  
 Query 7369 GCACAATCCCCTACTATC 7384  
 |||  
 Sbjct 181 GCACAATCCCCTACTATC 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 GCTCTTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGA-TGCCTCTGCC 7248  
 ||| |||  
 Sbjct 1 GCTTCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGAATGCCTCTACC 60  
 Query 7249 GACAGTGGTCCCAAAGATGGACCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 7308  
 |||  
 Sbjct 61 GACAGTGGTCCCAAAGATGTACCCACCCACGAGGAACATCGTGGAAAAAGAAGACGTT 120  
 Query 7309 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 7368  
 |||  
 Sbjct 121 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 180  
 Query 7369 GCACAATCCCCTACTATC 7384  
 |||  
 Sbjct 181 GCACAATCCCCTACTATC 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 GCTCTTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
 ||| |||  
 Sbjct 1 GCTCTTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAAATGCCTCTGCCG 60  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTT 7309  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGATCCCAACCCACGAGGAGCATCGTGGAAAAAGGAGACGTTT 120  
 Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATCTCACATCTCCACTGACGTAAGGGATGACG 180  
 Query 7370 CACAATCCCCTACTATC 7384  
 |||  
 Sbjct 181 CACAATCCCCTACTATC 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 GCTCTTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
 || |||  
 Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGCCTCTGCCG 60  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTT 7309  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCAACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTT 120  
 Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCC-ACTGACGTAAGGGATGAC 7368  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCTACTGACGTAAGGGATGAC 180  
 Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCC-ACTGACGTAAGGGATGAC 7368  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCTACTGACGTAAGGGATGAC 180  
 Query 7369 GCAC-AATCCC-ACTA 7382  
 ||| ||| |||  
 Sbjct 181 GCACAAATCCCCTACTA 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 CCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCGACA 7252  
 || ||| ||| |||

Sbjct 4 CCCACAAATGCCATCATTGCGATAAAAGGAAAGGCTATCATTCAAGATCTCTCTGCCGACA 63  
 Query 7253 GTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTCCAA 7312  
 |  
 Sbjct 64 GTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTCCAA 123  
 Query 7313 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 7372  
 |  
 Sbjct 124 CCACGTCTTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACGCAC 183  
 Query 7373 AATCCCACTATC 7384  
 |  
 Sbjct 184 AATCCCACTATC 195

>[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 CTACAAATGCCATCATTGCGATAAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCGACAG 7253  
 |  
 Sbjct 5 CTACAAATGCCATCATTGCGATAAAAGGAAAGGCTATCATTCAAGATTCCTCTGCCGACAG 64  
 Query 7254 TGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTCCAAC 7313  
 |  
 Sbjct 65 TGGTCCCAAAGATGGACCCCCACCCACTAGGAGCATCGTGGAAAAAGAAGACGTTCCAAC 124  
 Query 7314 CACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCACA 7373  
 |  
 Sbjct 125 CACGTCTTCAAAGCAAGTGGATTGATGTGATACTTCCACTGACGTAAGGGATGACGCACA 184  
 Query 7374 ATCCCACTATC 7384  
 |  
 Sbjct 185 ATCCCACTATC 195

>[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 GCTCCTACAAATGCCATCATTGCGATAAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
 |  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAAGGAAAGGCTATCATTCAAGATCTCTCTGCCG 60  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCCCA--CCCACGA-GGAGCATCGTGGAAAAAGAAGACG 7306  
 |  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAAGGAAAGGCTATCATTCAAGATCTCTCTGCCG 60  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCCCA--CCCACGA-GGAGCATCGTGGAAAAAGAAGACG 7306  
 |  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAAGGAGCATCGTGGAAAAAGAAGACG 120  
 Query 7307 TTCCAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATG 7366  
 |  
 Sbjct 121 TTCCAACCACGTCTTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATG 180  
 Query 7367 ACGCACAATCCCACTATC 7384  
 |  
 Sbjct 181 ACGCACAATCCCACTATC 198

>[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 GCTCCTACAAATGCCATCATTGCGATAAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249  
 |  
 Sbjct 1 GCTCTTACAAATGCCATCATGGCGATAAAAGGAAAGGCTATCATTCAAGATCTCTCTGCCG 60  
 Query 7250 ACAGTGGTCCCAAAGATGGACCCC-CACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 7308  
 |  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGGGGAAAAAGAAGACGTT 120  
 Query 7309 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 7368  
 |  
 Sbjct 121 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGAC 180  
 Query 7369 GCACAATCCCACTATC 7384  
 |  
 Sbjct 181 GCACAATCCCACTATC 196

>[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 GCTCCTACAAATGCCATCATTGCGATAAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249



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

Strand=Plus/Plus

Query 7190 GTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249
Sbjct 1 GTCCTACAAATGCCATCATTGTGATAAAGGAAAGGCTATCATTGAAGATGCCTCTACCT 60
Query 7250 ACAGTGGTCCCAAAGATGGACCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTT 7309
Sbjct 61 ATAGTGGTCCCAAAGATGGACCCACCCATGAGGAGCATGGTAGAAAAAGAAGATGTTC 120
Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369
Sbjct 121 CAACCATGTCTTCAAAGCAAGTGGATTGATGTGGATCCTCCAATGACGTC AAGGATGACG 180
Query 7370 CACAATCCCCTACTATC 7384

>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 GTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249
Sbjct 1 GCTTCTACAAATGCCATCATTGCGATAAAGAA-GGCTATCATTCAAGATCTCTCTGCCG 59
Query 7250 ACAGTGGTCCCAAAGATGGACCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTT 7309
Sbjct 60 ACAGTGGTCCCAAAGAATGGACCCACCCACGAAGAGCATCGTGGAAAAAGAAGACGTTT 119
Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369
Sbjct 120 C-ACCACGTCTTC-AAGCAAGTGGAAATGATGTGACATCT-CACTGACGTAA-GGATGACG 175
Query 7370 CACAATCCCCTACTATC 7384

>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 GTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249
Sbjct 1 GTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCA-CGTTGAAGATGCCTCTGCCG 59
Query 7250 ACAGTGGTCCCAAAGATGGACCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTT 7309
Sbjct 60 ACAGTGGTCCCA--GATGGACCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTT 117
Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369
Sbjct 60 ACAGTGGTCCCA--GATGGACCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTT 117
Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369
Sbjct 118 CAACCACGTCTTCAAAG-----CCACTGACGTAAGGGATGACG 155
Query 7370 CACAATCCCCTACTATC 7384

>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 GTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 7249
Sbjct 1 GTCCTACAAATGCCATCATTGTGATAAAGGAAAGGCTATCATTGAAGATGCCTCTACCT 60
Query 7250 ACAGTGGTCCCAAAGATGGACCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTT 7309
Sbjct 61 ATAGTGGTCCCAAAGATGGACCCACCCATGAGGAGCATGGTAGAAAAAGAAGATGTTC 120
Query 7310 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 7369
Sbjct 121 CAACCATGTCTTCAAAGCAAGTGGATTGATGTGGATCCTCCAATGATGTCAAGGATGATG 180
Query 7370 CACAATCCCCTACTATC 7384

Sbjct 181 TCAAATCCCCTACTATC 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 CCATTGCCAGCTATCTGTCACTTTATTGTGAAGATAGTGGAAAAGGAAGGTGGCTCCTA 7196  
|

Sbjct 38 CCATTGCCAGCTATCTGTCACTTTATTGTGAAGATAGTGGAAAAGGAAGGTGGCTCCTA 97  
Query 7197 CAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCGACAGTGG 7256  
|

Sbjct 98 CAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCGACAGTGG 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 AATCCCCTACTATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTCAATTTGGAGA 7432  
|

Sbjct 61 AATCCCCTACTATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTCAATTTGGAGA 120  
Query 7373 AATCCCCTACTATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTCAATTTGGAGA 7432  
|

Sbjct 61 AATCCCCTACTATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTCAATTTGGAGA 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 ATCCCCTACTATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTCAATTTGGAGAG 7433  
|

Sbjct 62 ATCCCCTACTATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTCAATTTGGAGAG 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 AATCCCCTACTATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTCAATTTGGAGA 7432  
|

Sbjct 61 AATCCCCTACTATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTCAATTTGGAGA 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 AATCCCCTACTATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTCAATTTGGAGA 7432

```

|||||
Sbjct 61 AATCCCACTATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTTCATTTGGAGA 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 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 7372
|||||
Sbjct 1 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 60
Query 7373 AATCCCACTATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTTCATTTGGAGA 7432
|||||
Sbjct 61 AATCCCACTATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTTCATTTGGAGA 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 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 7372
|||||
Sbjct 1 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 60
Query 7373 AATCCCACTATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTTCATTTGGAGA 7432
|||||
Sbjct 61 AATCCCACTATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTTCATTTGGAGA 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 ACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCACAA 7374
|||||
Sbjct 3 ACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCACAA 62
Query 7375 TCCCACTATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTTCATTTGGAGAGG 7434
|||||
Sbjct 63 TCCCACTATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTTCATTTGGAGAGG 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 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 7372
Strand=Plus/Plus
Query 7313 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 7372
|||||
Sbjct 1 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 60
Query 7373 AATCCCACTATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTTCATTTGGAGA 7432
|||||
Sbjct 61 AATCCCACTATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTTCATTTGGAGA 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 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 7372

```





```

Identities = 122/123 (99%), Gaps = 0/123 (0%)
Strand=Plus/Plus
Query 7313 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 7372
          |||
Sbjct 1 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 60
Query 7373 AATCCCCTATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTTCATTTGGAGA 7432
          |||
Sbjct 61 AATCCCCTATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTTCATTTGGAGA 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 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 7372
          |||
Sbjct 1 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCTC 60
Query 7373 AATCCCCTATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTTCATTTGGAGA 7432
          |||
Sbjct 61 AATCCCCTATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTTCATTTGGAGA 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 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 7372
          |||
Sbjct 1 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 60
Query 7373 AATCCCCTATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTTCATTTGGAGA 7432
          |||
Sbjct 61 AATCCCCTATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTTCATTTGGAGA 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:	Score (Bits)	E Value
<a href="#">lcl Amplicon_47 non-redundant amplicon of 6422 matches</a>	<a href="#">352</a>	3e-99
<a href="#">lcl Amplicon_194 non-redundant amplicon of 40 matches</a>	<a href="#">349</a>	4e-98
<a href="#">lcl Amplicon_152 non-redundant amplicon of 66 matches</a>	<a href="#">349</a>	4e-98
<a href="#">lcl Amplicon_723 non-redundant amplicon of 2 matches</a>	<a href="#">347</a>	1e-97
<a href="#">lcl Amplicon_644 non-redundant amplicon of 4 matches</a>	<a href="#">347</a>	1e-97
<a href="#">lcl Amplicon_593 non-redundant amplicon of 2 matches</a>	<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	<a href="#">313</a>	3e-87
lcl Amplicon_780	non-redundant	amplicon of 2 matches	<a href="#">306</a>	4e-85
lcl Amplicon_758	non-redundant	amplicon of 2 matches	<a href="#">306</a>	4e-85
lcl Amplicon_375	non-redundant	amplicon of 6 matches	<a href="#">289</a>	3e-80
lcl Amplicon_576	non-redundant	amplicon of 2 matches	<a href="#">289</a>	3e-80
lcl Amplicon_489	non-redundant	amplicon of 4 matches	<a href="#">286</a>	4e-79
lcl Amplicon_131	non-redundant	amplicon of 36 matches	<a href="#">260</a>	2e-71
lcl Amplicon_22	non-redundant	amplicon of 18 matches	<a href="#">257</a>	2e-70
lcl Amplicon_785	non-redundant	amplicon of 2 matches	<a href="#">248</a>	1e-67
lcl Amplicon_621	non-redundant	amplicon of 10 matches	<a href="#">248</a>	1e-67
lcl Amplicon_128	non-redundant	amplicon of 54 matches	<a href="#">248</a>	1e-67
lcl Amplicon_354	non-redundant	amplicon of 5 matches	<a href="#">241</a>	1e-65
lcl Amplicon_36	non-redundant	amplicon of 2906 matches	<a href="#">223</a>	4e-60
lcl Amplicon_458	non-redundant	amplicon of 11 matches	<a href="#">221</a>	1e-59
lcl Amplicon_261	non-redundant	amplicon of 16 matches	<a href="#">221</a>	1e-59
lcl Amplicon_119	non-redundant	amplicon of 56 matches	<a href="#">221</a>	1e-59
lcl Amplicon_249	non-redundant	amplicon of 392 matches	<a href="#">221</a>	1e-59
lcl Amplicon_178	non-redundant	amplicon of 69 matches	<a href="#">221</a>	1e-59
lcl Amplicon_712	non-redundant	amplicon of 1 matches	<a href="#">219</a>	5e-59
lcl Amplicon_484	non-redundant	amplicon of 1 matches	<a href="#">219</a>	5e-59
lcl Amplicon_226	non-redundant	amplicon of 5 matches	<a href="#">219</a>	5e-59
lcl Amplicon_48	non-redundant	amplicon of 966 matches	<a href="#">219</a>	5e-59
lcl Amplicon_442	non-redundant	amplicon of 2 matches	<a href="#">217</a>	2e-58
lcl Amplicon_724	non-redundant	amplicon of 1 matches	<a href="#">217</a>	2e-58
lcl Amplicon_681	non-redundant	amplicon of 2 matches	<a href="#">217</a>	2e-58
lcl Amplicon_678	non-redundant	amplicon of 1 matches	<a href="#">217</a>	2e-58
lcl Amplicon_594	non-redundant	amplicon of 1 matches	<a href="#">217</a>	2e-58
lcl Amplicon_79	non-redundant	amplicon of 3 matches	<a href="#">217</a>	2e-58
lcl Amplicon_463	non-redundant	amplicon of 1 matches	<a href="#">217</a>	2e-58
lcl Amplicon_91	non-redundant	amplicon of 3 matches	<a href="#">217</a>	2e-58
lcl Amplicon_98	non-redundant	amplicon of 6 matches	<a href="#">217</a>	2e-58
lcl Amplicon_300	non-redundant	amplicon of 3 matches	<a href="#">217</a>	2e-58
lcl Amplicon_58	non-redundant	amplicon of 7 matches	<a href="#">217</a>	2e-58
lcl Amplicon_332	non-redundant	amplicon of 3 matches	<a href="#">217</a>	2e-58
lcl Amplicon_9	non-redundant	amplicon of 3 matches	<a href="#">217</a>	2e-58
lcl Amplicon_306	non-redundant	amplicon of 3 matches	<a href="#">217</a>	2e-58
lcl Amplicon_741	non-redundant	amplicon of 2 matches	<a href="#">217</a>	2e-58
lcl Amplicon_13	non-redundant	amplicon of 2835 matches	<a href="#">217</a>	2e-58
lcl Amplicon_695	non-redundant	amplicon of 1 matches	<a href="#">215</a>	6e-58
lcl Amplicon_669	non-redundant	amplicon of 1 matches	<a href="#">215</a>	6e-58
lcl Amplicon_664	non-redundant	amplicon of 1 matches	<a href="#">215</a>	6e-58
lcl Amplicon_662	non-redundant	amplicon of 1 matches	<a href="#">215</a>	6e-58
lcl Amplicon_661	non-redundant	amplicon of 6 matches	<a href="#">215</a>	6e-58
lcl Amplicon_656	non-redundant	amplicon of 1 matches	<a href="#">215</a>	6e-58
lcl Amplicon_297	non-redundant	amplicon of 22 matches	<a href="#">215</a>	6e-58
lcl Amplicon_510	non-redundant	amplicon of 2 matches	<a href="#">215</a>	6e-58
lcl Amplicon_504	non-redundant	amplicon of 1 matches	<a href="#">215</a>	6e-58
lcl Amplicon_675	non-redundant	amplicon of 1 matches	<a href="#">214</a>	2e-57
lcl Amplicon_378	non-redundant	amplicon of 3 matches	<a href="#">214</a>	2e-57
lcl Amplicon_781	non-redundant	amplicon of 1 matches	<a href="#">214</a>	2e-57
lcl Amplicon_675	non-redundant	amplicon of 1 matches	<a href="#">214</a>	2e-57
lcl Amplicon_378	non-redundant	amplicon of 3 matches	<a href="#">214</a>	2e-57
lcl Amplicon_781	non-redundant	amplicon of 1 matches	<a href="#">214</a>	2e-57
lcl Amplicon_733	non-redundant	amplicon of 1 matches	<a href="#">214</a>	2e-57
lcl Amplicon_718	non-redundant	amplicon of 1 matches	<a href="#">214</a>	2e-57
lcl Amplicon_715	non-redundant	amplicon of 1 matches	<a href="#">214</a>	2e-57
lcl Amplicon_694	non-redundant	amplicon of 2 matches	<a href="#">214</a>	2e-57
lcl Amplicon_666	non-redundant	amplicon of 22 matches	<a href="#">214</a>	2e-57
lcl Amplicon_592	non-redundant	amplicon of 1 matches	<a href="#">214</a>	2e-57
lcl Amplicon_476	non-redundant	amplicon of 1 matches	<a href="#">214</a>	2e-57
lcl Amplicon_469	non-redundant	amplicon of 1 matches	<a href="#">214</a>	2e-57
lcl Amplicon_287	non-redundant	amplicon of 6 matches	<a href="#">214</a>	2e-57
lcl Amplicon_153	non-redundant	amplicon of 25 matches	<a href="#">214</a>	2e-57
lcl Amplicon_43	non-redundant	amplicon of 9 matches	<a href="#">214</a>	2e-57
lcl Amplicon_45	non-redundant	amplicon of 597 matches	<a href="#">214</a>	2e-57
lcl Amplicon_139	non-redundant	amplicon of 84 matches	<a href="#">214</a>	2e-57
lcl Amplicon_659	non-redundant	amplicon of 1 matches	<a href="#">212</a>	7e-57
lcl Amplicon_645	non-redundant	amplicon of 2 matches	<a href="#">212</a>	7e-57
lcl Amplicon_631	non-redundant	amplicon of 4 matches	<a href="#">212</a>	7e-57
lcl Amplicon_290	non-redundant	amplicon of 3 matches	<a href="#">212</a>	7e-57
lcl Amplicon_238	non-redundant	amplicon of 44 matches	<a href="#">212</a>	7e-57

lcl Amplicon_687	non-redundant	amplicon	of 2 matches	<u>210</u>	3e-56
lcl Amplicon_623	non-redundant	amplicon	of 1 matches	<u>210</u>	3e-56
lcl Amplicon_585	non-redundant	amplicon	of 3 matches	<u>210</u>	3e-56
lcl Amplicon_514	non-redundant	amplicon	of 1 matches	<u>210</u>	3e-56
lcl Amplicon_454	non-redundant	amplicon	of 1 matches	<u>210</u>	3e-56
lcl Amplicon_340	non-redundant	amplicon	of 3 matches	<u>210</u>	3e-56
lcl Amplicon_732	non-redundant	amplicon	of 4 matches	<u>208</u>	9e-56
lcl Amplicon_730	non-redundant	amplicon	of 2 matches	<u>208</u>	9e-56
lcl Amplicon_727	non-redundant	amplicon	of 1 matches	<u>208</u>	9e-56
lcl Amplicon_711	non-redundant	amplicon	of 2 matches	<u>208</u>	9e-56
lcl Amplicon_699	non-redundant	amplicon	of 4 matches	<u>208</u>	9e-56
lcl Amplicon_691	non-redundant	amplicon	of 4 matches	<u>208</u>	9e-56
lcl Amplicon_668	non-redundant	amplicon	of 4 matches	<u>208</u>	9e-56
lcl Amplicon_467	non-redundant	amplicon	of 1 matches	<u>208</u>	9e-56
lcl Amplicon_460	non-redundant	amplicon	of 1 matches	<u>208</u>	9e-56
lcl Amplicon_736	non-redundant	amplicon	of 2 matches	<u>208</u>	9e-56
lcl Amplicon_359	non-redundant	amplicon	of 6 matches	<u>206</u>	3e-55
lcl Amplicon_163	non-redundant	amplicon	of 10 matches	<u>206</u>	3e-55
lcl Amplicon_150	non-redundant	amplicon	of 13 matches	<u>205</u>	1e-54
lcl Amplicon_731	non-redundant	amplicon	of 2 matches	<u>205</u>	1e-54
lcl Amplicon_720	non-redundant	amplicon	of 2 matches	<u>205</u>	1e-54
lcl Amplicon_713	non-redundant	amplicon	of 2 matches	<u>205</u>	1e-54
lcl Amplicon_709	non-redundant	amplicon	of 2 matches	<u>205</u>	1e-54
lcl Amplicon_707	non-redundant	amplicon	of 1 matches	<u>205</u>	1e-54
lcl Amplicon_703	non-redundant	amplicon	of 4 matches	<u>205</u>	1e-54
lcl Amplicon_698	non-redundant	amplicon	of 14 matches	<u>205</u>	1e-54
lcl Amplicon_697	non-redundant	amplicon	of 2 matches	<u>205</u>	1e-54
lcl Amplicon_693	non-redundant	amplicon	of 2 matches	<u>205</u>	1e-54
lcl Amplicon_286	non-redundant	amplicon	of 7 matches	<u>203</u>	4e-54
lcl Amplicon_774	non-redundant	amplicon	of 1 matches	<u>203</u>	4e-54
lcl Amplicon_710	non-redundant	amplicon	of 2 matches	<u>203</u>	4e-54
lcl Amplicon_665	non-redundant	amplicon	of 8 matches	<u>203</u>	4e-54
lcl Amplicon_761	non-redundant	amplicon	of 1 matches	<u>201</u>	1e-53
lcl Amplicon_700	non-redundant	amplicon	of 2 matches	<u>199</u>	5e-53
lcl Amplicon_692	non-redundant	amplicon	of 2 matches	<u>199</u>	5e-53
lcl Amplicon_605	non-redundant	amplicon	of 2 matches	<u>199</u>	5e-53
lcl Amplicon_599	non-redundant	amplicon	of 1 matches	<u>199</u>	5e-53
lcl Amplicon_513	non-redundant	amplicon	of 2 matches	<u>199</u>	5e-53
lcl Amplicon_706	non-redundant	amplicon	of 2 matches	<u>196</u>	6e-52
lcl Amplicon_690	non-redundant	amplicon	of 2 matches	<u>196</u>	6e-52
lcl Amplicon_686	non-redundant	amplicon	of 2 matches	<u>196</u>	6e-52
lcl Amplicon_683	non-redundant	amplicon	of 2 matches	<u>196</u>	6e-52
lcl Amplicon_545	non-redundant	amplicon	of 12 matches	<u>181</u>	1e-47
lcl Amplicon_321	non-redundant	amplicon	of 10 matches	<u>181</u>	1e-47
lcl Amplicon_318	non-redundant	amplicon	of 5 matches	<u>179</u>	4e-47
lcl Amplicon_457	non-redundant	amplicon	of 1 matches	<u>170</u>	2e-44
lcl Amplicon_721	non-redundant	amplicon	of 10 matches	<u>168</u>	8e-44
lcl Amplicon_376	non-redundant	amplicon	of 3 matches	<u>163</u>	3e-42
lcl Amplicon_722	non-redundant	amplicon	of 2 matches	<u>163</u>	3e-42
lcl Amplicon_457	non-redundant	amplicon	of 1 matches	<u>170</u>	2e-44
lcl Amplicon_721	non-redundant	amplicon	of 10 matches	<u>168</u>	8e-44
lcl Amplicon_376	non-redundant	amplicon	of 3 matches	<u>163</u>	3e-42
lcl Amplicon_722	non-redundant	amplicon	of 2 matches	<u>163</u>	3e-42
lcl Amplicon_629	non-redundant	amplicon	of 1 matches	<u>161</u>	1e-41
lcl Amplicon_490	non-redundant	amplicon	of 1 matches	<u>161</u>	1e-41
lcl Amplicon_202	non-redundant	amplicon	of 22 matches	<u>159</u>	4e-41
lcl Amplicon_373	non-redundant	amplicon	of 3 matches	<u>156</u>	5e-40
lcl Amplicon_23	non-redundant	amplicon	of 9 matches	<u>150</u>	2e-38
lcl Amplicon_602	non-redundant	amplicon	of 2 matches	<u>149</u>	7e-38
lcl Amplicon_14	non-redundant	amplicon	of 22510 matches	<u>149</u>	7e-38
lcl Amplicon_616	non-redundant	amplicon	of 4 matches	<u>147</u>	3e-37
lcl Amplicon_734	non-redundant	amplicon	of 4 matches	<u>147</u>	3e-37
lcl Amplicon_565	non-redundant	amplicon	of 4 matches	<u>145</u>	9e-37
lcl Amplicon_175	non-redundant	amplicon	of 134 matches	<u>145</u>	9e-37
lcl Amplicon_126	non-redundant	amplicon	of 778 matches	<u>145</u>	9e-37
lcl Amplicon_429	non-redundant	amplicon	of 8 matches	<u>143</u>	3e-36
lcl Amplicon_672	non-redundant	amplicon	of 2 matches	<u>143</u>	3e-36
lcl Amplicon_579	non-redundant	amplicon	of 2 matches	<u>143</u>	3e-36
lcl Amplicon_511	non-redundant	amplicon	of 4 matches	<u>143</u>	3e-36
lcl Amplicon_219	non-redundant	amplicon	of 10 matches	<u>143</u>	3e-36
lcl Amplicon_466	non-redundant	amplicon	of 10 matches	<u>143</u>	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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427
          |||
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60
Query 428 ACAGTGGTCCCAAAGATGGACCCCAACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 487
          |||
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCAACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 120
Query 488 CAACCACGTCTTCAAAGCAAGTGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547
          |||
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166

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Sbjct 1 |GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG| 60
Query 167 |ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC| 226
|
Sbjct 61 |ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC| 120
Query 227 |CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT| 261
|
Sbjct 121 |CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT| 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 |ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC| 487
|
Sbjct 61 |ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC| 120
Query 488 |CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG| 547
|
Sbjct 121 |CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG| 180
Query 548 |CACAATCCCCTACTA| 560
|

```

```

Sbjct 181 |CACAATCCCCTACTA| 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 |ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC| 226
|
Sbjct 61 |ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC| 120
Query 227 |CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT| 261
|
Sbjct 121 |CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT| 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 |ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC| 487
|
Sbjct 61 |ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC| 120
Query 488 |CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG| 547
|
Sbjct 121 |CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG| 180
Query 548 |CACAATCCCCTACTA| 560
|

```

```

Sbjct 181 |CACAATCCCCTACTA| 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 |ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC| 226
|
Sbjct 61 |ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC| 120
Query 227 |CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT| 261
|
Sbjct 121 |CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT| 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 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAAGAAGACGTTC 487  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAAGAAGACGTTC 120  
 Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCCCCACTGACGTAAGGGATGACG 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
 |||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAAGAAGACGTTC 226  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAAGAAGACGTTC 120  
 Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 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 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAAGAAGACGTTC 487  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAAGAAGACGTTC 120  
 Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 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 GCCCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAAGAAGACGTTC 226  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAAGAAGACGTTC 120  
 Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAAGAAGACGTTC 226  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAAGAAGACGTTC 120  
 Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 487  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
 Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
 Query 548 CACAATCCCACTATC 562  
 | |||

Sbjct 181 CTCAATCCCACTATC 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 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226  
 |||

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
 Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261  
 |||

Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
 |||

Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 487  
 |||

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
 Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
 |||

Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226  
 |||

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
 Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
 |||

Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 487  
 |||

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
 Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 |||

Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATATGATATCTCCACTGACGTAAGGGATGACG 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 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAAGAAGACGTTC 226  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAAGAAGACGTTC 120  
 Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261  
 |||

>[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 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAAGAAGACGTTC 487  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAAGAAGACGTTC 120  
 Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATGGATGTGATATCTCCACTGACGTAAGGGATGACG 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 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAAGAAGACGTTC 226  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAAGAAGACGTTC 120  
 Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261  
 |||

>[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  
 Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
 |||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAAGAAGACGTTC 487  
 |||  
 Sbjct 61 ACAGTGGTCCCAGAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAAGAAGACGTTC 120  
 Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATGGATGTGATATCTCCACTGACGTAAGGGATGACG 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 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
 |||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226  
 |||  
 Sbjct 61 ACAGTGGTCCCAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
 Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 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 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 487  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
 Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
 Query 548 CACAATCCCCTACTATC 562  
 |||  
 Sbjct 181 CACAATCCCCTACTATC 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 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
 Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 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 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 487  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
 Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
 Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
 Query 548 CACAATCCCCTACTATC 562  
 |||  
 Sbjct 181 CACAATCCCCTACTATC 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 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
 Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261

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|||||
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 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 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 487
|||||
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACCTTC 120
Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547
|||||
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 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 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 226
|||||
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACCTTC 120
Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261
|||||
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 155
>lcl|Amplicon_305 non-redundant amplicon of 6 matches
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 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 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 487
|||||
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 120
Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547
|||||
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 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 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 226
|||||
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 120
Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261
|||||
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 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

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Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAAGAAGACGTT 120  
 Query 487 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 546  
 |||

Sbjct 121 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 180  
 Query 547 GCACAATCCCACTATC 562  
 |||

Sbjct 181 GCACAATCCCACTATC 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-AAAAAGAAGACGTT 225  
 |||

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAAGAAGACGTT 120  
 Query 226 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261  
 |||

Sbjct 121 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 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 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 487  
 |||

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 120  
 Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 |||

Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATAACTCCACTGACGTAAGGGATGACG 180  
 Query 548 CACAATCCCACTATC 562  
 |||

Sbjct 181 AACAATCCCACTATC 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 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 226  
 |||

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 120  
 Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 120  
 Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261  
 |||

Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGCCTCTGCCG 60  
 Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 487  
 |||

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 120  
 Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 |||

Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
 Query 548 CACAATCCCACTATC 562  
 |||

Sbjct 181 CACAATCCCACTATC 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGCCTCTGCCG 60  
 Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
 Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261  
 ||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATCTCTCTGCCG 60  
 Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 487  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
 Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
 Query 548 CACAATCCCCTACTATC 562  
 ||||||||||||||||  
 Sbjct 181 CACAATCCCCTACTATC 195  
 Query 548 CACAATCCCCTACTATC 562  
 ||||||||||||||||  
 Sbjct 181 CACAATCCCCTACTATC 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATCTCTCTGCCG 60  
 Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
 Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261  
 ||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 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 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 487  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCA-CGTGGAAAAAGAAGACGTTC 119  
 Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 120 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 179  
 Query 548 CACAATCCCCTACTATC 562  
 ||||||||||||||||  
 Sbjct 180 CACAATCCCCTACTATC 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 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCA-CGTGGAAAAAGAAGACGTTC 119  
 Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261

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|||||
Sbjct 120 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTGAAGATGCCTCTGCCG 60
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 487
|||||
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 120
Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547
|||||
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180
Query 548 CACAATCCCACTATC 562
|||||
Sbjct 181 AACAATCCCACTATC 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTGAAGATGCCTCTGCCG 60
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 226
|||||
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 120
Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261
|||||
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 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 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 487
|||||
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 120
Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547
|||||
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 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 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 226
|||||
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 226
|||||
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 120
Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261
|||||
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 155
>lcl|Amplicon\_674 non-redundant amplicon of 6 matches
Length=195

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Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547
|||||
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGCCTCTGCCG 60
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226
|||||
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120
Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGA 260
|||||
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGA 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGCCTCTACCG 60
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 487
|||||
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120
Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547
|||||
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGCCTCTACCG 60
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226
|||||
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120
Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261
|||||
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 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 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGCCTCTGCCG 60
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 487
|||||
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120
Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547
|||||
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 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
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Identities = 152/155 (98%), Gaps = 0/155 (0%)  
 Strand=Plus/Plus  
 Query 107 GCTCCTACAAATGCCATCATTGCGATAAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
 || ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAAGGAAAGGCTATCGTTCAAGATGCCTCTGCCG 60  
 Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
 Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261  
 ||||||||||||||||||||||||||||||||||||||||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 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 CTACAAATGCCATCATTGCGATAAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCGACAG 431  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 5 CTACAAATGCCATCATTGCGATAAAAGGAAAGGCTATCGTTCAAGATGCCTCTGCCGACAG 64  
 Query 432 TGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC AAC 491  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 65 TGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC AAC 124  
 Query 492 CACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCACA 551  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 125 CACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCACA 184  
 Query 552 ATCCCACTATC 562  
 ||||||||||||  
 Sbjct 185 ATCCCACTATC 195

Score = 264 bits (292), Expect = 1e-72  
 Identities = 149/151 (99%), Gaps = 0/151 (0%)  
 Strand=Plus/Plus  
 Query 111 CTACAAATGCCATCATTGCGATAAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCGACAG 170  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 5 CTACAAATGCCATCATTGCGATAAAAGGAAAGGCTATCGTTCAAGATGCCTCTGCCGACAG 64  
 Query 171 TGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC AAC 230  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 65 TGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 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 GCTCCTACAAATGCCATCATTGCGATAAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
 || ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 1 GCACCTACAAATGCCATAATTGCGATAAAAGGAAAGGCTATCGTTCAAGATGCCTCTGCCG 60  
 Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 487  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 1 GCACCTACAAATGCCATAATTGCGATAAAAGGAAAGGCTATCGTTCAAGATGCCTCTGCCG 60  
 Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 487  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
 Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 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 GCTCCTACAAATGCCATCATTGCGATAAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
 || ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 1 GCACCTACAAATGCCATAATTGCGATAAAAGGAAAGGCTATCGTTCAAGATGCCTCTGCCG 60  
 Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

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Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 120
Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261
|||||
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 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 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGCCTCTGCCG 60
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 487
|||||
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACAAGGAGCATCGTGGAAAAAGAAGACGTTTC 120
Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547
|||||
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 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 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGCCTCTGCCG 60
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 226
|||||
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACAAGGAGCATCGTGGAAAAAGAAGACGTTTC 120
Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261
|||||
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 155
Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261
|||||
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 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 GCACCTACAAATGCCATCATTGCGAAAAAGGAAAGGCTATCGTTCAAGATGCCTCTGCCG 60
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 487
|||||
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 120
Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547
|||||
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 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 GCACCTACAAATGCCATCATTGCGAAAAAGGAAAGGCTATCGTTCAAGATGCCTCTGCCG 60
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 226
|||||
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 120
Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261
|||||
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 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 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 487  
 ||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
 Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 ||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
 Query 548 CACAATCCCACTATC 562  
 ||||||||||||||||  
 Sbjct 181 CACAATCCCACTATC 195  
 ||||||||||||||||  
 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 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGNCTATCGTTCAAGATGCCTCTGCCG 60  
 Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226  
 ||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
 Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261  
 ||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 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 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGCCTCTGCCG 60  
 Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 487  
 ||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
 Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 ||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 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 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGCCTCTGCCG 60  
 Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226  
 ||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
 Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261  
 ||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 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 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 487  
 ||||||||||||||||||||||||||||||||||||||||||||

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACGCACGAGGAGCA-CGTGGAAAAACAAGACGTTC 119  
 Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 |||  
 Sbjct 120 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 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 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226  
 |||

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACGCACGAGGAGCA-CGTGGAAAAACAAGACGTTC 119  
 Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261  
 |||

Sbjct 120 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 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 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 487  
 |||

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
 Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 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 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226  
 |||

Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATGCCTCTGCCG 60  
 Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
 Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261  
 |||

Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 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 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGCCCCCTGCCG 60  
 Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 487  
 |||

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
 Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 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 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGCCCCCTGCCG 60  
 Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
 Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261  
 ||||||||||||||||||||||||||||||||||||||||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 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 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGCCTCTGCCG 60  
 Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 487  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
 Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
 Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
 Query 548 CACAATCCCCTACTA 560  
 ||||||||||||  
 Sbjct 181 CACAATCCCCTACTA 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 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGCCTCTGCCG 60  
 Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
 Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261  
 ||||||||||||||||||||||||||||||||||||||||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAAATGCCTCTGCCG 60  
 Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 487  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
 Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG 180  
 Query 548 CACAATCCCCTACTATC 562  
 ||||||||||||  
 Sbjct 181 CACAATCCCCTACTATC 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAAATGCCTCTGCCG 60  
 Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
 Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGA 260  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGA 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTACCG 60

Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 487  
 |||

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAACATCGTGGAAAAAGAAGACGTTC 120

Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 |||

Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180

Query 548 CACAATCCCCTACTATC 562  
 |||

Sbjct 181 CACAATCCCCTACTATC 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTCAAGATGCCTCTACCG 60

Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226  
 |||

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAACATCGTGGAAAAAGAAGACGTTC 120

Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261  
 |||

Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCATTCAAGATGCCTCTGCCG 60

Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 487  
 |||

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120

Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 |||

Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG 180

Query 548 CACAATCCCCTACTATC 562  
 |||

Sbjct 181 CACAATCCCCTACTATC 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCATTCAAGATGCCTCTGCCG 60

Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226  
 |||

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120

Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGA 260  
 |||

Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGA 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 GACAGTGGTCCCAAAGATGGACCCCAACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 486  
 ||||||||||||||||||||||||||||||||||||||||| |||||||||||||||||||||  
 Sbjct 61 GACAGTGGTCCCAAAGATGGACCCCAACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 120  
 Query 487 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 546  
 ||||||||||||||||||||||||||||||||||||||||| |||||||||||||||||||||  
 Sbjct 121 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 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 GACAGTGGTCCCAAAGATGGACCCCAACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 225  
 ||||||||||||||||||||||||||||||||||||||||| |||||||||||||||||||||  
 Sbjct 61 GACAGTGGTCCCAAAGATGGACCCCAACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 120  
 Query 226 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261  
 |||||||||||||||||||||  
 Sbjct 121 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 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 GACAGTGGTCCCAAAGATGGACCCCAACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 486  
 ||||||||||||||||||||||||||||||||||||||||| |||||||||||||||||||||  
 Sbjct 61 GACAGTGGTCCCAAAGATGGACCCCAACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 120 Query  
 427 GACAGTGGTCCCAAAGATGGACCCCAACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 486  
 ||||||||||||||||||||||||||||||||||||||||| |||||||||||||||||||||  
 Sbjct 61 GACAGTGGTCCCAAAGATGGACCCCAACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 120  
 Query 487 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 546  
 ||||||||||||||||||||||||||||||||||||||||| |||||||||||||||||||||  
 Sbjct 121 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 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 GACAGTGGTCCCAAAGATGGACCCCAACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 225  
 ||||||||||||||||||||||||||||||||||||||||| |||||||||||||||||||||  
 Sbjct 61 GACAGTGGTCCCAAAGATGGACCCCAACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 120  
 Query 226 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261  
 |||||||||||||||||||||  
 Sbjct 121 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
 ||||||||||||||||||||||||||||||||||||||||| ||| | |||||||||||||||||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATGCCTCTGCCG 60  
 Query 428 ACAGTGGTCCCAAAGATGGACCCCAACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 487  
 ||||||||||||||||||||||||||||||||||||||||| |||||||||||||||||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCAACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 120

Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG 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 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAAGAAGACGTTTC 226  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCNCGAGGAGCATCGTGAAAAAGAAGACGTTTC 120  
 Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGA 260  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGA 154  
 Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGA 260  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGA 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 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAAGAAGACGTTTC 487  
 |||  
 Sbjct 60 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAAGAAGACGTTTC 119  
 Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 |||  
 Sbjct 120 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 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 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAAGAAGACGTTTC 226  
 |||  
 Sbjct 60 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAAGAAGACGTTTC 119  
 Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261  
 |||  
 Sbjct 120 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 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 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAAGAAGACGTTTC 487  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAAGAAGACGTTTC 120  
 Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG 180  
 Query 548 CACAATCCCACTATC 562  
 |||  
 Sbjct 181 CACAATCCCACTATC 195  
 Score = 260 bits (288), Expect = 2e-71

Sbjct 181 CACAATCCCCTACTATC 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATCCCTCTGCCG 60  
 Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226  
 |||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
 Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGA 260  
 |||||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGA 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 GCTTCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGCCTCTACCG 60  
 Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 487  
 |||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAACATCGTGGAAAAAGAAGACGTTC 120  
 Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 |||||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 180  
 Query 548 CACAATCCCCTACTATC 562  
 |||||

Sbjct 181 CACAATCCCCTACTATC 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 GCTTCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGCCTCTACCG 60  
 Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226  
 |||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAACATCGTGGAAAAAGAAGACGTTC 120  
 Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261  
 |||||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATGCCTCTGCCG 60  
 Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 487  
 |||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
 Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 |||||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG 180  
 Query 548 CACAATCCCCTACTATC 562  
 |||||

Sbjct 181 CACAATCCCCTACTATC 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 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226  
 |||||

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTCC 120  
Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGA 260

|||||  
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGA 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-GTGGAAAAAGAAGACGTTC 118  
Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547

|||||

Sbjct 119 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCT-CACTGACGTAAGGGATGACG 177  
Query 548 CACAATCCCACTATC 562

|||||

Sbjct 178 CACAATCCCACTATC 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-GTGGAAAAAGAAGACGTTC 118 Query  
167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226

|||||

Sbjct 60 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCAT-GTGGAAAAAGAAGACGTTC 118  
Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261

|||||

Sbjct 119 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 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 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATGCCTCTGCCG 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 487

|||||

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGG-ATGAC 546

|||||

Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGAATGAC 180  
Query 547 GCACAATCCCACTATC 562

|||||

Sbjct 181 GCACAATCCCACTATC 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 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATGCCTCTGCCG 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226

|||||

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261

|||||

Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 155  
>[lcl|Amplicon 166 non-redundant amplicon of 44 matches](#)  
Length=195  
Score = 327 bits (362), Expect = 1e-91



Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 487  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
 Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG 180  
 Query 548 CACAATCCCACTATC 562  
 |||

Sbjct 181 CACAATCCCACTATC 195  
 Score = 257 bits (284), Expect = 2e-70  
 Identities = 150/154 (97%), Gaps = 1/154 (1%)  
 Strand=Plus/Plus

Query 108 CTCCTA-CAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
 |||

Sbjct 1 CTCCTAGCAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATGCCTCTGCCG 60  
 Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226  
 |||

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
 Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGA 260  
 |||

Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGA 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
 |||

Sbjct 1 GCACCTACCAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTAAAGATGCCTCTGCCG 60  
 Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 487  
 |||

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 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  
 |||

Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
 |||

Sbjct 1 GCACCTACCAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTAAAGATGCCTCTGCCG 60  
 Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226  
 |||

Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
 Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGA 260  
 |||

Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGA 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGAT--GCCTCTGC 425  
 |||

Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATCTGCCTCTGC 60  
 Query 426 CGACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGT 485  
 |||

Sbjct 61 CGACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGT 120  
 Query 486 TCCAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGA 545  
 |||

Sbjct 121 TCCAACCACGTCTTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGA 180  
 Query 546 CGCACAATCCCACTATC 562  
 |||



```

Sbjct 61 | ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120
Query 227 | CAACCACGTCTTCAAAGCAAGTGGATTGATGTGA 260
Sbjct 121 | CAACCACGTCTTCAAAGCAAGTGGATTGATGTGA 154
Sbjct 121 | CAACCACGTCTTCAAAGCAAGTGGATTGATGTGA 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 | GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427
Sbjct 1 | GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTGAAGATAAGCCTGCCG 60
Query 428 | ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 487
Sbjct 61 | ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120
Query 488 | CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547
Sbjct 121 | CAACCACGTCTTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG 180
Query 548 | CACAATCCCCTAT 561

```

Sbjct 181 | CACAATCCCCTAT 194  
Score = 255 bits (282), Expect = 7e-70  
Identities = 149/154 (97%), Gaps = 0/154 (0%)

Strand=Plus/Plus

```

Query 107 | GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166
Sbjct 1 | GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTGAAGATAAGCCTGCCG 60
Query 167 | ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226
Sbjct 61 | ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120
Query 227 | CAACCACGTCTTCAAAGCAAGTGGATTGATGTGA 260
Sbjct 121 | CAACCACGTCTTCAAAGCAAGTGGATTGATGTGA 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 | GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427
Sbjct 1 | GCTTCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGCCTCTACCG 60
Query 428 | ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 487
Sbjct 61 | ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAACATCGTGGAAAAAGAAGACGTTC 120
Query 488 | CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547
Sbjct 121 | CAACCACGTCTTCAAAGCAAGTGGATTGATGAGATATCTCCACTGACGTAAGGGATGACG 180
Query 548 | CACAATCCCCTAT 561

```

Sbjct 181 | CACAATCCCCTAT 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 | GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166
Sbjct 1 | GCTTCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGCCTCTACCG 60
Query 167 | ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226
Sbjct 61 | ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAACATCGTGGAAAAAGAAGACGTTC 120
Query 227 | CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261
Sbjct 121 | CAACCACGTCTTCAAAGCAAGTGGATTGATGAGAT 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 GCTTCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGCCTCTACCG 60  
 Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 487  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAACATCGTGGAAAAAGAAGACGTTTC 120  
 Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATTTCCACTGACGTAAGGGATGACG 180  
 Query 548 CACAATCCCCTAT 561  
 |||

Sbjct 181 CACAATCCCCTAT 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 GCTTCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGCCTCTACCG 60  
 Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 226  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAACATCGTGGAAAAAGAAGACGTTTC 120  
 Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261  
 |||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 155

>[lcl|Amplicon 268 non-redundant amplicon of 190 matches](#)

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 GCTTCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGAATGCCTCTACC 60  
 Query 368 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGA-TGCCTCTGCC 426  
 ||| |||  
 Sbjct 1 GCTTCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGAATGCCTCTACC 60  
 Query 427 GACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 486  
 |||  
 Sbjct 61 GACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAACATCGTGGAAAAAGAAGACGTT 120  
 Query 487 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 546  
 |||  
 Sbjct 121 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 180  
 Query 547 GCACAATCCCCTATC 562  
 |||

Sbjct 181 GCACAATCCCCTATC 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 GCTTCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGAATGCCTCTACC 60  
 Query 166 GACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 225  
 |||  
 Sbjct 61 GACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAACATCGTGGAAAAAGAAGACGTT 120  
 Query 226 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261  
 |||  
 Sbjct 121 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 156

>[lcl|Amplicon 468 non-redundant amplicon of 2 matches](#)

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 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATGCCTCTACCG 60  
 Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTTC 487



```

          |||||
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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGCCTCTCCCG 60
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAAGAAGACGTTC 226
          |||||
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAACATCGTGAAAAAGAAGACGTTC 120
Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261
          |
Sbjct 121 C-ACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATCTCTCTGCCG 60
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAAGAAGACGTTC 487
          |||||
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGTATCGTGAAAAAGAAGACGTTC 120
Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547
          |||||
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACG 180
Query 548 CACAATCCCACTATC 562
          |||||
Sbjct 181 CACAATCCCACTATC 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATCTCTCTGCCG 60
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAAGAAGACGTTC 226
          |||||
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGTATCGTGAAAAAGAAGACGTTC 120
Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGA 260
          |||||
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGA 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATCTCTCTGCCG 60
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAAGAAGACGTTC 487
          |||||
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAAGAAGACGTTC 120
Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 546
          |||||
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGAC 180
Query 547 GCACAATCCCACTATC 562
          |||||
Sbjct 181 GCACAATCCCACTATC 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATCTCTCTGCCG 60
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAAGAAGACGTTC 226

```



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 GCTTCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGAATGCCTCTACC 60  
 Query 427 GACAGTGGTCCCAAAGATGGACCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 486  
 ||||||||||||||||||||||||||||||||||||||| |||||||||||||||||||||||  
 Sbjct 61 GACAGTGGTCCCAAAGATGTACCCACCCACGAGGAACATCGTGGAAAAAGAAGACGTT 120  
 Query 487 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 546  
 ||||||||||||||||||||||||||||||||||||||| |||||||||||||||||||||||  
 Sbjct 61 GACAGTGGTCCCAAAGATGTACCCACCCACGAGGAACATCGTGGAAAAAGAAGACGTT 120  
 Query 487 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 546  
 ||||||||||||||||||||||||||||||||||||||| |||||||||||||||||||||||  
 Sbjct 121 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 180  
 Query 547 GCACAATCCCCTACTATC 562  
 |||||||||||||||

Sbjct 181 GCACAATCCCCTACTATC 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 GCTTCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGAATGCCTCTACC 60  
 Query 166 GACAGTGGTCCCAAAGATGGACCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 225  
 ||||||||||||||||||||||||||||||||||||||| |||||||||||||||||||||||  
 Sbjct 61 GACAGTGGTCCCAAAGATGTACCCACCCACGAGGAACATCGTGGAAAAAGAAGACGTT 120  
 Query 226 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261  
 ||||||||||||||||||||||||||||||||||||||| |||||||||||||||||||||||  
 Sbjct 121 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAAATGCCTCTGCCG 60  
 Query 428 ACAGTGGTCCCAAAGATGGACCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 487  
 ||||||||||||||||||||||||||||||||||||||| |||||||||||||||||||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGATCCCACCCACGAGGAGCATCGTGGAAAAAGGAGACGTT 120  
 Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
 ||||||||||||||||||||||||||||||||||||||| |||||||||||||||||||||||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATCTCACATCTCCACTGACGTAAGGGATGACG 180  
 Query 548 CACAATCCCCTACTATC 562  
 |||||||||||||||

Sbjct 181 CACAATCCCCTACTATC 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAAATGCCTCTGCCG 60  
 Query 167 ACAGTGGTCCCAAAGATGGACCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 226  
 ||||||||||||||||||||||||||||||||||||||| |||||||||||||||||||||||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGATCCCACCCACGAGGAGCATCGTGGAAAAAGGAGACGTT 120  
 Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGAT 256  
 ||||||||||||||||||||||||||||||||||||||| |||||||||||||||||||||||  
 Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGAT 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 GCACCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAGATGCCTCTGCCG 60

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Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 487
          |||
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120
Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCC-ACTGACGTAAGGGATGAC 546
          |||
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCTACTGACGTAAGGGATGAC 180
Query 547 GCAC-AATCCC-ACTA 560
          |||
Sbjct 181 GCACTAATCCCTACTA 196
Score = 266 bits (294), Expect = 4e-73
Identities = 152/155 (98%), Gaps = 0/155 (0%)
Strand=Plus/Plus
Query 107 GCTCCTACAAATGCCATCATTGCGATAAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166
          ||
Sbjct 1 GCACCTACAAATGCCATCATTGCGATAAAAGGAAAGGCTATCGTTCAAGATGCCTCTGCCG 60
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226
          |||
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120
Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261
          |||
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 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 CCTACAAATGCCATCATTGCGATAAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCGACA 430
          ||
Sbjct 4 CCCACAAATGCCATCATTGCGATAAAAGGAAAGGCTATCATTCAAGATCTCTCTGCCGACA 63
Query 431 GTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTCCAA 490
          |||
Sbjct 64 GTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTCCAA 123
Query 491 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 550
          |||
Sbjct 124 CCACGTCTTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGACGCAC 183
Query 551 AATCCCCTATC 562
          |||
Sbjct 184 AATCCCCTATC 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 CCTACAAATGCCATCATTGCGATAAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCGACA 169
          ||
Sbjct 4 CCCACAAATGCCATCATTGCGATAAAAGGAAAGGCTATCATTCAAGATCTCTCTGCCGACA 63
Query 170 GTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTCCAA 229
          |||
Sbjct 64 GTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTCCAA 123
Query 230 CCACGTCTTCAAAGCAAGTGGATTGATGTGA 260
          |||
Sbjct 124 CCACGTCTTCAAAGCAAGTGGATTGATGTGA 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 CTACAAATGCCATCATTGCGATAAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCGACAG 431
          |||
Sbjct 5 CTACAAATGCCATCATTGCGATAAAAGGAAAGGCTATCATTCAAGATTCTCTGCCGACAG 64
Query 432 TGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTCCAAC 491
          |||
Sbjct 65 TGGTCCCAAAGATGGACCCCCACCCACTAGGAGCATCGTGGAAAAAGAAGACGTTCCAAC 124
Query 492 CACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCACA 551
          |||
Sbjct 125 CACGTCTTCAAAGCAAGTGGATTGATGTGATACTTCCACTGACGTAAGGGATGACGCACA 184
Query 552 ATCCCCTATC 562

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```

|||||||
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 CTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATTCCTCTGCCGACAG 64
Query 171 TGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTCCAAC 230
|||||||
Sbjct 65 TGGTCCCAAAGATGGACCCCCACCCACTAGGAGCATCGTGGAAAAAGAAGACGTTCCAAC 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 GTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427
|||||||
Sbjct 1 GTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATCTCTCTGCCG 60
Query 428 ACAGTGGTCCCAAAGATGGACCCCCA--CCCACGA-GGAGCATCGTGGAAAAAGAAGACG 484
|||||||
Sbjct 1 GTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATCTCTCTGCCG 60
Query 428 ACAGTGGTCCCAAAGATGGACCCCCA--CCCACGA-GGAGCATCGTGGAAAAAGAAGACG 484
|||||||
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAAGGAGCATCGTGGAAAAAGAAGACG 120
Query 485 TTCCAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATG 544
|||||||
Sbjct 121 TTCCAACCACGTCTTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATG 180
Query 545 ACGCACAATCCCCTATC 562
|||||||

```

Sbjct 181 ACGCACAATCCCCTATC 198  
Score = 237 bits (262), Expect = 2e-64  
Identities = 148/157 (94%), Gaps = 3/157 (2%)  
Strand=Plus/Plus

```

Query 107 GTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166
|||||||
Sbjct 1 GTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATCTCTCTGCCG 60
Query 167 ACAGTGGTCCCAAAGATGGACCCCC--ACCCACG-AGGAGCATCGTGGAAAAAGAAGACG 223
|||||||
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAAGGAGCATCGTGGAAAAAGAAGACG 120
Query 224 TTCCAACCACGTCTTCAAAGCAAGTGGATTGATGTGA 260
|||||||
Sbjct 121 TTCCAACCACGTCTTCAAAGCAAGTGGATTGATGTGA 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 GTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427
|||||||
Sbjct 1 GTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATCTCTCTGCCG 60
Query 428 ACAGTGGTCCCAAAGATGGACCCC-CACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 486
|||||||
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGGGAAAAAGAAGACGTT 120
Query 487 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGAC 546
|||||||
Sbjct 121 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGACATCTCCACTGACGTAAGGGATGAC 180
Query 547 GCACAATCCCCTATC 562
|||||||
Sbjct 181 GCACAATCCCCTATC 196
Score = 235 bits (260), Expect = 6e-64
Identities = 146/155 (94%), Gaps = 1/155 (1%)
Strand=Plus/Plus

```

```

Query 107 GTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166
|||||||
Sbjct 1 GTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATCTCTCTGCCG 60

```

Query 167 ACAGTGGTCCCAAAGATGGACCCC-CACCCACGAGGAGCATCGTGGAAAAAGAAGACGTT 225  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGGGGAAAAAGAAGACGTT 120  
 Query 226 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGA 260  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGGGGAAAAAGAAGACGTT 120  
 Query 226 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGA 260  
 |||  
 Sbjct 121 CCAACCACGTCTTCAAAGCAAGTGGATTGATGTGA 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
 |||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 428 ACAGTGGTCCC-AAAGATGGACCCCCACCCACGAGGAGCATCGTGG-AAAAAGAAGACGT 485  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGANCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGT 120  
 Query 486 TCCAA-CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACT-GACGTAAGGGAT 543  
 |||  
 Sbjct 121 TCCAACCCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTNCCCTGGNCGT-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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
 |||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 60  
 Query 167 ACAGTGGTCCC-AAAGATGGACCCCCACCCACGAGGAGCATCGTGG-AAAAAGAAGACGT 224  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGANCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGT 120  
 Query 225 TCCAA-CCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261  
 |||  
 Sbjct 121 TCCAACCCACGTCTTCAAAGCAAGTGGATTGATGTGAT 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427  
 |||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATCTCTCTGCCG 60  
 Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTT 487  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTT 120  
 Query 488 CAACCACGTCTTC-----AAAGCAAGTGGATTGATGTGATATCTCCAC 530  
 |||  
 Sbjct 121 CAACCACGTCTTCAAACCGGGTGGCAGGTAAAGCAAGTGGATTGATGTGACATCTCCAC 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166  
 |||  
 Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTCAAGATCTCTCTGCCG 60  
 Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTT 226  
 |||  
 Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTT 120  
 Query 227 CAACCACGTCTTCAA 242  
 |||  
 Sbjct 121 CAACCACGTCTTCAA 136



[>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 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 487  
|  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATC 525  
|  
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATC 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 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226  
|  
Sbjct 61 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 120  
Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 261  
|  
Sbjct 121 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGAT 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

[>lcl|Amplicon 131 non-redundant amplicon of 36 matches](#)

Length=245

[>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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTGAAGATGCCTCTACCT 60  
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 487  
|  
Sbjct 61 ATAGTGGTCCCAAAGATGGACCCCCACCCATGAGGAGCATGGTAGAAAAAGAAGATGTTC 120  
Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547  
|  
Sbjct 121 CAACCATGTCTTCAAAGCAAGTGGATTGATGTGGATCCTCCAATGATGTCAAGGATGATG 180  
Query 548 CACAATCCCACTATCCTTCGCAAGACCCT 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCATTGAAGATGCCTCTACCT 60  
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226  
|  
Sbjct 61 ATAGTGGTCCCAAAGATGGACCCCCACCCATGAGGAGCATGGTAGAAAAAGAAGATGTTC 120  
Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTG 259  
|  
Sbjct 121 CAACCATGTCTTCAAAGCAAGTGGATTGATGTG 153

[>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 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 487
|
Sbjct 61 ATAGTGGTCCCAAAGATGGACCCCCACCCATGAGGAGCATGGTAGAAAAAGAAGATGTTC 120
Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547
|||||
Sbjct 121 CAACCATGTCTTCAAAGCAAGTGGATTGATGTGGATCCTCCAATGACGTCAAGGATGACG 180
Query 548 CACAATCCCCTATC 562

```

```

|||||
Sbjct 181 TCAAATCCCCTATC 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166
|||||
Sbjct 1 GCTCCTACAAATGCCATCATTGTGATAAAGGAAAGGCTATCATTGAAGATGCCTCTACCT 60
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226
|
Sbjct 61 ATAGTGGTCCCAAAGATGGACCCCCACCCATGAGGAGCATGGTAGAAAAAGAAGATGTTC 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427
|||
Sbjct 1 GCTTCTACAAATGCCATCATTGCGATAAAGAA-GGCTATCATTCAAGATCTCTCTGCCG 59
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 487
|||||
Sbjct 60 ACAGTGGTCCAAAGAATGGACCCCCACCCACGAAGAGCATCGTGGAAAAAGAAGACGTTC 119
Query 488 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACG 547
|
Sbjct 120 C-ACCACGTCTTC-AAGCAAGTGAATGATGTGACATCT-CACTGACGTAA-GGATGACG 175
Query 548 CACAATCCCCTATC 562

```

```

|||
Sbjct 176 CACCATCCCCTATC 190
Score = 199 bits (220), Expect = 5e-53
Identities = 139/154 (90%), Gaps = 3/154 (2%)
Strand=Plus/Plus

```

```

Query 107 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 166
|||||
Sbjct 1 GCTTCTACAAATGCCATCATTGCGATAAAGAA-GGCTATCATTCAAGATCTCTCTGCCG 59
Query 167 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 226
|||||
Sbjct 60 ACAGTGGTCCAAAGAATGGACCCCCACCCACGAAGAGCATCGTGGAAAAAGAAGACGTTC 119
Query 227 CAACCACGTCTTCAAAGCAAGTGGATTGATGTGA 260

```

```

|||||
Sbjct 120 C-ACCACGTCTTC-AAGCAAGTGAATGATGTGA 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 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG 427
|||||
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCA-CGTTGAAGATGCCTCTGCCG 59
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 487
|||||
Sbjct 1 GCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCA-CGTTGAAGATGCCTCTGCCG 59
Query 428 ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGGAAAAAGAAGACGTTC 487
|||||

```



```

|||||
Sbjct 38 CCATTGCCAGCTATCTGTCACTTTATTGTGAAGATAGTGGAAAAGGAAGGTGGCTCCTA 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 AATCCCACTATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTCAATTTGGAGA 610
|||||
Sbjct 61 AATCCCACTATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTCAATTTGGAGA 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 ATCCCACTATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTCAATTTGGAGAG 611
|||||
Sbjct 62 ATCCCACTATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTCAATTTGGAGAG 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 AATCCCACTATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTCAATTTGGAGA 610
|||||
Sbjct 61 AATCCCACTATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTCAATTTGGAGA 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 AATCCCACTATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTCAATTTGGAGA 610
|||||
Sbjct 61 AATCCCACTATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTCAATTTGGAGA 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 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 550  
 |||  
 Sbjct 1 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 60  
 Query 551 AATCCCCTATCCTTCGCAAGACCCTTCTCTATATAAGGAAGTTCATTTCAATTTGGAGA 610  
 |||  
 Sbjct 61 AATCCCCTATCCTTCGCAAGACCCTTCTCTATATAAGGAAGTTCATTTCAATTTGGAGA 120 Query  
 551 AATCCCCTATCCTTCGCAAGACCCTTCTCTATATAAGGAAGTTCATTTCAATTTGGAGA 610  
 |||  
 Sbjct 61 AATCCCCTATCCTTCGCAAGACCCTTCTCTATATAAGGAAGTTCATTTCAATTTGGAGA 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 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 550  
 |||  
 Sbjct 1 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 60  
 Query 551 AATCCCCTATCCTTCGCAAGACCCTTCTCTATATAAGGAAGTTCATTTCAATTTGGAGA 610  
 |||  
 Sbjct 61 AATCCCCTATCCTTCGCAAGACCCTTCTCTATATAAGGAAGTTCATTTCAATTTGGAGA 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 ACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCACAA 552  
 |||  
 Sbjct 3 ACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCACAA 62  
 Query 553 TCCCCTATCCTTCGCAAGACCCTTCTCTATATAAGGAAGTTCATTTCAATTTGGAGAGG 612  
 |||  
 Sbjct 63 TCCCCTATCCTTCGCAAGACCCTTCTCTATATAAGGAAGTTCATTTCAATTTGGAGAGG 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 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 550  
 |||  
 Sbjct 1 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 60  
 Query 551 AATCCCCTATCCTTCGCAAGACCCTTCTCTATATAAGGAAGTTCATTTCAATTTGGAGA 610  
 |||  
 Sbjct 61 AATCCCCTATCCTTCGCAAGACCCTTCTCTATATAAGGAAGTTCATTTCAATTTGGAGA 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 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 550  
 |||  
 Sbjct 1 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 60  
 Query 551 AATCCCCTATCCTTCGCAAGACCCTTCTCTATATAAGGAAGTTCATTTCAATTTGGAGA 610  
 |||  
 Sbjct 61 AATCCCCTATCCTTCGCAAGACCCTTCTCTATATAAGGAAGTTCATTTCAATTTGGAGA 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 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 550

|||||

Sbjct 1 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 60

Query 551 AATCCCCTATCCTTCGCAAGACCCTTCTCTATATAAGGAAGTTCATTTCAATTTGGAGA 610

|||||

Sbjct 61 AATCCCCTATCCTTCGCAAGACCCTTCTCTATATAAGGAAGTTCATTTCAATTTGGAGA 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 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 550

|||||

Sbjct 1 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 60

Query 551 AATCCCCTATCCTTCGCAAGACCCTTCTCTATATAAGGAAGTTCATTTCAATTTGGAGA 610

|||||

Sbjct 61 AATCCCCTATCCTTCGCAAGACCCTTCTCTATATAAGGAAGTTCATTTCAATTTGGAGA 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 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 550

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

Query 491 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 550

|||||

Sbjct 1 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 60

Query 551 AATCCCCTATCCTTCGCAAGACCCTTCTCTATATAAGGAAGTTCATTTCAATTTGGAGA 610

|||||

Sbjct 61 AATCCCCTATCCTTCGCAAGACCCTTCTCTATATAAGGAAGTTCATTTCAATTTGGAGA 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 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 550

|||||

Sbjct 1 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 60

Query 551 AATCCCCTATCCTTCGCAAGACCCTTCTCTATATAAGGAAGTTCATTTCAATTTGGAGA 610

|||||

Sbjct 61 AATCCCCTATCCTTCGCAAGACCCTTCTCTATATAAGGAAGTTCATTTCAATTTGGAGA 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 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 550

|||||

Sbjct 1 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 60

Query 551 AATCCCCTATCCTTCGCAAGACCCTTCTCTATATAAGGAAGTTCATTTCAATTTGGAGA 610

|||||

Sbjct 61 AATCCCCTATCCTTCGCAAGACCCTTCTCTATATAAGGAAGTTCATTTCAATTTGGAGA 120

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 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 550

|||||

Sbjct 1 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCTC 60

Query 551 AATCCCCTATCCTTCGCAAGACCCTTCTCTATATAAGGAAGTTCATTTTGGAGA 610

|||||

Sbjct 61 AATCCCCTATCCTTCGCAAGACCCTTCTCTATATAAGGAAGTTCATTTTGGAGA 120

Query 551 AATCCCCTATCCTTCGCAAGACCCTTCTCTATATAAGGAAGTTCATTTTGGAGA 610

|||||

Sbjct 61 AATCCCCTATCCTTCGCAAGACCCTTCTCTATATAAGGAAGTTCATTTTGGAGA 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 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 550

|||||

Sbjct 1 CCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCAC 60

Query 551 AATCCCCTATCCTTCGCAAGACCCTTCTCTATATAAGGAAGTTCATTTTGGAGA 610

|||||

Sbjct 61 AATCCCCTATCCTTCGCAAGACCCTTCTCTATATAAGGAAGTTCATTTTGGAGA 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:

	Score (Bits)	E Value
<a href="#">lcl Amplicon_4 non-redundant amplicon of 24874 matches</a>	<a href="#">325</a>	2e-90
<a href="#">lcl Amplicon_223 non-redundant amplicon of 24 matches</a>	<a href="#">322</a>	2e-89
<a href="#">lcl Amplicon_749 non-redundant amplicon of 4 matches</a>	<a href="#">320</a>	8e-89
<a href="#">lcl Amplicon_653 non-redundant amplicon of 2 matches</a>	<a href="#">320</a>	8e-89
<a href="#">lcl Amplicon_626 non-redundant amplicon of 2 matches</a>	<a href="#">320</a>	8e-89

lcl Amplicon_391	non-redundant	amplicon	of 10 matches	<a href="#">320</a>	8e-89
lcl Amplicon_264	non-redundant	amplicon	of 80 matches	<a href="#">320</a>	8e-89
lcl Amplicon_613	non-redundant	amplicon	of 4 matches	<a href="#">320</a>	8e-89
lcl Amplicon_518	non-redundant	amplicon	of 2 matches	<a href="#">320</a>	8e-89
lcl Amplicon_508	non-redundant	amplicon	of 4 matches	<a href="#">320</a>	8e-89
lcl Amplicon_507	non-redundant	amplicon	of 4 matches	<a href="#">320</a>	8e-89
lcl Amplicon_416	non-redundant	amplicon	of 6 matches	<a href="#">320</a>	8e-89
lcl Amplicon_409	non-redundant	amplicon	of 16 matches	<a href="#">320</a>	8e-89
lcl Amplicon_396	non-redundant	amplicon	of 12 matches	<a href="#">320</a>	8e-89
lcl Amplicon_227	non-redundant	amplicon	of 16 matches	<a href="#">320</a>	8e-89
lcl Amplicon_403	non-redundant	amplicon	of 96 matches	<a href="#">320</a>	8e-89
lcl Amplicon_52	non-redundant	amplicon	of 218 matches	<a href="#">320</a>	8e-89
lcl Amplicon_419	non-redundant	amplicon	of 14 matches	<a href="#">320</a>	8e-89
lcl Amplicon_27	non-redundant	amplicon	of 324 matches	<a href="#">320</a>	8e-89
lcl Amplicon_525	non-redundant	amplicon	of 8 matches	<a href="#">318</a>	3e-88
lcl Amplicon_646	non-redundant	amplicon	of 4 matches	<a href="#">316</a>	1e-87
lcl Amplicon_607	non-redundant	amplicon	of 10 matches	<a href="#">316</a>	1e-87
lcl Amplicon_499	non-redundant	amplicon	of 38 matches	<a href="#">316</a>	1e-87
lcl Amplicon_473	non-redundant	amplicon	of 2 matches	<a href="#">316</a>	1e-87
lcl Amplicon_284	non-redundant	amplicon	of 12 matches	<a href="#">316</a>	1e-87
lcl Amplicon_425	non-redundant	amplicon	of 24 matches	<a href="#">316</a>	1e-87
lcl Amplicon_37	non-redundant	amplicon	of 98 matches	<a href="#">316</a>	1e-87
lcl Amplicon_76	non-redundant	amplicon	of 14 matches	<a href="#">316</a>	1e-87
lcl Amplicon_329	non-redundant	amplicon	of 18 matches	<a href="#">315</a>	3e-87
lcl Amplicon_578	non-redundant	amplicon	of 2 matches	<a href="#">311</a>	4e-86
lcl Amplicon_521	non-redundant	amplicon	of 4 matches	<a href="#">311</a>	4e-86
lcl Amplicon_269	non-redundant	amplicon	of 34 matches	<a href="#">309</a>	1e-85
lcl Amplicon_310	non-redundant	amplicon	of 26 matches	<a href="#">298</a>	3e-82
lcl Amplicon_94	non-redundant	amplicon	of 12 matches	<a href="#">275</a>	3e-75
lcl Amplicon_320	non-redundant	amplicon	of 22 matches	<a href="#">248</a>	4e-67
lcl Amplicon_0	non-redundant	amplicon	of 12684 matches	<a href="#">214</a>	9e-57
lcl Amplicon_648	non-redundant	amplicon	of 4 matches	<a href="#">210</a>	1e-55
lcl Amplicon_224	non-redundant	amplicon	of 12 matches	<a href="#">210</a>	1e-55
lcl Amplicon_614	non-redundant	amplicon	of 2 matches	<a href="#">208</a>	4e-55
lcl Amplicon_519	non-redundant	amplicon	of 1 matches	<a href="#">208</a>	4e-55
lcl Amplicon_272	non-redundant	amplicon	of 5 matches	<a href="#">208</a>	4e-55
lcl Amplicon_417	non-redundant	amplicon	of 3 matches	<a href="#">208</a>	4e-55
lcl Amplicon_228	non-redundant	amplicon	of 8 matches	<a href="#">208</a>	4e-55
lcl Amplicon_397	non-redundant	amplicon	of 6 matches	<a href="#">208</a>	4e-55
lcl Amplicon_426	non-redundant	amplicon	of 12 matches	<a href="#">208</a>	4e-55
lcl Amplicon_404	non-redundant	amplicon	of 48 matches	<a href="#">208</a>	4e-55
lcl Amplicon_53	non-redundant	amplicon	of 109 matches	<a href="#">208</a>	4e-55
lcl Amplicon_397	non-redundant	amplicon	of 6 matches	<a href="#">208</a>	4e-55
lcl Amplicon_426	non-redundant	amplicon	of 12 matches	<a href="#">208</a>	4e-55
lcl Amplicon_404	non-redundant	amplicon	of 48 matches	<a href="#">208</a>	4e-55
lcl Amplicon_53	non-redundant	amplicon	of 109 matches	<a href="#">208</a>	4e-55
lcl Amplicon_526	non-redundant	amplicon	of 4 matches	<a href="#">206</a>	1e-54
lcl Amplicon_389	non-redundant	amplicon	of 5 matches	<a href="#">206</a>	1e-54
lcl Amplicon_77	non-redundant	amplicon	of 7 matches	<a href="#">206</a>	1e-54
lcl Amplicon_654	non-redundant	amplicon	of 2 matches	<a href="#">205</a>	4e-54
lcl Amplicon_608	non-redundant	amplicon	of 5 matches	<a href="#">205</a>	4e-54
lcl Amplicon_285	non-redundant	amplicon	of 6 matches	<a href="#">205</a>	4e-54
lcl Amplicon_38	non-redundant	amplicon	of 43 matches	<a href="#">205</a>	4e-54
lcl Amplicon_311	non-redundant	amplicon	of 10 matches	<a href="#">205</a>	4e-54
lcl Amplicon_56	non-redundant	amplicon	of 3 matches	<a href="#">203</a>	2e-53
lcl Amplicon_522	non-redundant	amplicon	of 2 matches	<a href="#">199</a>	2e-52
lcl Amplicon_270	non-redundant	amplicon	of 17 matches	<a href="#">199</a>	2e-52
lcl Amplicon_336	non-redundant	amplicon	of 3 matches	<a href="#">190</a>	1e-49
lcl Amplicon_493	non-redundant	amplicon	of 1 matches	<a href="#">188</a>	3e-49
lcl Amplicon_582	non-redundant	amplicon	of 1 matches	<a href="#">183</a>	1e-47
lcl Amplicon_3	non-redundant	amplicon	of 2803 matches	<a href="#">170</a>	9e-44
lcl Amplicon_575	non-redundant	amplicon	of 7 matches	<a href="#">165</a>	4e-42
lcl Amplicon_299	non-redundant	amplicon	of 3 matches	<a href="#">165</a>	4e-42
lcl Amplicon_652	non-redundant	amplicon	of 6 matches	<a href="#">161</a>	5e-41
lcl Amplicon_1	non-redundant	amplicon	of 25856 matches	<a href="#">152</a>	2e-38
lcl Amplicon_229	non-redundant	amplicon	of 16 matches	<a href="#">150</a>	9e-38
lcl Amplicon_750	non-redundant	amplicon	of 4 matches	<a href="#">147</a>	1e-36
lcl Amplicon_520	non-redundant	amplicon	of 2 matches	<a href="#">147</a>	1e-36
lcl Amplicon_398	non-redundant	amplicon	of 12 matches	<a href="#">147</a>	1e-36
lcl Amplicon_427	non-redundant	amplicon	of 24 matches	<a href="#">147</a>	1e-36
lcl Amplicon_405	non-redundant	amplicon	of 96 matches	<a href="#">147</a>	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
>lcl Amplicon_4	non-redundant amplicon of 24874 matches		
lcl Amplicon_180	non-redundant amplicon of 22 matches	<a href="#">62.6</a>	3e-11

Length=180

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

Query	1885	GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA	1944
Sbjct	1	GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA	60
Query	1945	TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT	2004
Sbjct	61	TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT	120
Query	2005	CCCGAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAAGTAGGATAA	2064
Sbjct	121	CCCGAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAAGTAGGATAA	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	GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA	1944
Sbjct	1	GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA	60
Query	1945	TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT	2004
Sbjct	61	TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT	120
Query	2005	CCCGAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAAGTAGGATAA	2064
Sbjct	121	CCCGAATTATACATTTAATACGCGATAGAAAACAAAATATANCGCGCAAAGTAGGATAA	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 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 1944
Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 60
Query 1945 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTATGATTAGAGT 2004
Sbjct 61 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTATGATTAGAGT 120
Query 2005 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATAA 2064
Sbjct 121 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATAA 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 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 1944
Identities = 179/180 (99%), Gaps = 0/180 (0%) Strand=Plus/Plus
Query 1885 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 1944
Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 60
Query 1945 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTATGATTAGAGT 2004
Sbjct 61 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTATGATTAGAGT 120
Query 2005 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATAA 2064
Sbjct 121 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCTCGCAAACACTAGGATAA 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 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 1944
Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 60
Query 1945 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTATGATTAGAGT 2004
Sbjct 61 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTATGATTAGAGT 120
Query 2005 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATAA 2064
Sbjct 121 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATAA 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 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 1944
Sbjct 1 GAATCCTGTTGCCGGACTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 60
Query 1945 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTATGATTAGAGT 2004
Sbjct 61 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTATGATTAGAGT 120
Query 2005 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATAA 2064
Sbjct 121 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATAA 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 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 1944
Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 60
Query 1945 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTATGATTAGAGT 2004
Sbjct 61 CGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTATGATTAGAGT 120
Query 1945 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTATGATTAGAGT 2004

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Sbjct 61 CGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT 120
Query 2005 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATAA 2064
|||||
Sbjct 121 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATAA 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 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 1944
|||||
Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 60
Query 1945 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT 2004
|||||
Sbjct 61 TGTAATAATTAACATGTAATGCATGACGTTATCTATGAGATGGGTTTTTATGATTAGAGT 120
Query 2005 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATAA 2064
|||||
Sbjct 121 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATAA 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 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 1944
|||||
Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 60
Query 1945 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT 2004
|||||
Sbjct 61 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTACGATTAGAGT 120
Query 2005 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATAA 2064
|||||
Sbjct 121 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATAA 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 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 1944
|||||
Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAGCA 60
Query 1945 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT 2004
|||||
Sbjct 61 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT 120
Query 2005 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATAA 2064
|||||
Sbjct 121 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATAA 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 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 1944
|||||
Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 60
Query 1945 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT 2004
|||||
Sbjct 61 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT 120
Query 2005 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATAA 2064
|||||
Sbjct 121 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATAA 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 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 1944
|||||
Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 60
Query 1945 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT 2004
|||||
Sbjct 61 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT 120

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Query 2005 CCCGCAATTATACATTTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATAA 2064  
|

Sbjct 121 CCCGCAATTATACATTTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTGGGATAA 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 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 1944  
|

Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 60

Query 1945 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT 2004  
|

Sbjct 61 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT 120

Query 2005 CCCGCAATTATACATTTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATAA 2064  
|

Sbjct 121 CCCGCAATTATACATTTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATAA 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 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 1944  
Identities = 179/180 (99%), Gaps = 0/180 (0%)

Strand=Plus/Plus

Query 1885 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 1944  
|

Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 60

Query 1945 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT 2004  
|

Sbjct 61 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGACT 120

Query 2005 CCCGCAATTATACATTTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATAA 2064  
|

Sbjct 121 CCCGCAATTATACATTTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATAA 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 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 1944  
|

Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 60

Query 1945 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT 2004  
|

Sbjct 61 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT 120

Query 2005 CCCGCAATTATACATTTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATAA 2064  
|

Sbjct 121 CCCGCAATTATACATTTTAATACGCGATAGAAAACAGAATATAGCGCGCAAACACTAGGATAA 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 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 1944  
|

Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 60

Query 1945 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT 2004  
|

Sbjct 61 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT 120

Query 2005 CCCGCAATTATACATTTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATAA 2064  
|

Sbjct 121 CCCGCAATTATACATTTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATAA 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 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 1944  
|

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Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 60
Query 1945 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT 2004
|||||
Sbjct 61 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT 120
Query 1945 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT 2004
|||||
Sbjct 61 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT 120
Query 2005 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAA 2064
|||||
Sbjct 121 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAA 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 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 1944
|||||
Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 60
Query 1945 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT 2004
|||||
Sbjct 61 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT 120
Query 2005 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAA 2061
|||||
Sbjct 121 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAA 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 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 1944
|||||
Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATCTAATTTCTGTTGAATTACGTTAAGCA 60
Query 1945 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT 2004
|||||
Sbjct 61 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT 120
Query 2005 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAA 2064
|||||
Sbjct 121 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAA 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 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 1944
|||||
Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 60
Query 1945 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT 2004
|||||
Sbjct 61 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT 120
Query 2005 CCCGCAATTATACATTTAATA-CGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAA 2063
|||||
Sbjct 121 CCCGCAATTATACATTTAATACCGGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAA 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 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 1944
|||||
Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 60
Query 1945 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT 2004
|||||
Sbjct 61 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGG-TTTTATGATTAGAGT 119
Query 2005 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAA 2064

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|||||
Sbjct 120 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAAGTACGATAA 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 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 1944
|||||
Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 60
Query 1945 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT 2004
|||||
Sbjct 61 TGTAATAATTAACATGTAATGCATGACGTTGTTTATGAGATGGGTTTTTATGATTAGAGT 120
Query 2005 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAAGTACGATAA 2064
|||||
Sbjct 121 CCCGCAATTATACATTTAATACACGATAGAAAACAAAATATAGCGCGCAAAGTACGATAA 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 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 1944
|||||
Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGA-TTACGTTAAGCA 59
Query 1945 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT 2004
|||||
Sbjct 60 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT 119
Query 2005 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAAGTACGATAA 2064
|||||
Sbjct 120 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAAGTACGATAA 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 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 1944
|||||
Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 60
Query 1945 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT 2004
|||||
Sbjct 61 TGTAATAATTAACATGTAATGCATGACGTAATTTATGAGATGGGTTTTTATGATTAGAGT 120
Query 2005 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAAGTACGATAA 2064
|||||
Sbjct 121 CCCGCAATAATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAAGTACGATAA 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 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 1944
|||||
Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 60
Query 1945 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT 2004
|||||
Sbjct 61 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT 120
Query 2005 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAAGTACGATAA 2064
|||||
Sbjct 121 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATGGCGCGCAAAGTGGGATAA 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 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 1944
|||||
Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 60
Query 1945 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT 2004
||

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Sbjct 61 TGAAATAATTAACATGTAATGCATGACGTAATTTATGAGATGGGTTTTTATGATTAGAGT 120  
 Query 2005 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATAA 2064  
 |||  
 Sbjct 121 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATAA 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 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 1944  
 |||  
 Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 60  
 |||  
 Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 60  
 Query 1945 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT 2004  
 |||  
 Sbjct 61 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTT-TGATTAGAGT 119  
 Query 2005 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATAA 2064  
 |||

Sbjct 120 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATAA 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 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 1944  
 |||  
 Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCA 60  
 Query 1945 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGT 2004  
 |||  
 Sbjct 61 TGTAATAATTAACATGTAATGCATGACGTTA-TTATGAGATGGGTTTTTATGATTAGAGT 119  
 Query 2005 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATAA 2064  
 |||  
 Sbjct 120 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATAA 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 AATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCAT 1945  
 |||  
 Sbjct 1 AATCCTGTTGCCGGTCTTGCATGATTATCATATAATTTCTGTTGAATTACGTTAAGCAT 60  
 Query 1946 GTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTC 2005  
 |||  
 Sbjct 61 GTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTC 120  
 Query 2006 CCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATAA 2064  
 |||  
 Sbjct 121 CCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATAA 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 GAATCCTGTTGCCGGTCTTGCATGATTATCATATA-ATTTCTGTTGAATTACGTTAAGC 1943  
 |||  
 Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATATATTTCTGTTG-ATTACGTTAAGC 59  
 Query 1944 ATGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAG 2003  
 |||  
 Sbjct 60 ATGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAG 119  
 Query 2004 TCCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATA 2063  
 |||  
 Sbjct 120 TCCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATA 179 Query  
 2004 TCCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATA 2063  
 |||  
 Sbjct 120 TCCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATA 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 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAAATTTCTGTTGAATTACGTTAAGCA 1944
Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAAATTTCTGTTGAATTACGTTAAGCA 60
Query 1945 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTATGATTAGAGT 2004
Sbjct 61 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTATGATTACACT 120
Query 2005 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATAA 2064
Sbjct 121 CCCCCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATAA 180

>lcl|Amplicon 269 non-redundant amplicon of 34 matches

Length=179

Score = 309 bits (342), Expect = 1e-85
Identities = 176/179 (98%), Gaps = 0/179 (0%)
Strand=Plus/Plus

Query 1885 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAAATTTCTGTTGAATTACGTTAAGCA 1944
Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAAATTTCTGTTGAATTACGTTAAGCA 60
Query 1945 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTATGATTAGAGT 2004
Sbjct 61 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTATGATTAGAGT 120
Query 2005 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATA 2063
Sbjct 121 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATA 179

>lcl|Amplicon 310 non-redundant amplicon of 26 matches

Length=180

Score = 298 bits (330), Expect = 3e-82
Identities = 174/180 (97%), Gaps = 0/180 (0%)
Strand=Plus/Plus

Query 1885 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAAATTTCTGTTGAATTACGTTAAGCA 1944
Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAAATTTCTGTTGAATTACGAATTGCA 60
Query 1945 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTATGATTAGAGT 2004
Sbjct 61 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTATGATTAGAGT 120
Query 2005 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTAGGATAA 2064
Sbjct 121 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTACCATAA 180

>lcl|Amplicon\_94 non-redundant amplicon of 12 matches

Sbjct 121 CCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAACACTACCATAA 180

>lcl|Amplicon 94 non-redundant amplicon of 12 matches

Length=186

Score = 275 bits (304), Expect = 3e-75
Identities = 178/186 (96%), Gaps = 7/186 (4%)
Strand=Plus/Plus

Query 1885 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAAATTTCTGTTGAATTACGTTAAGCA 1944
Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAAATTTCTGTTGAATTACGTTAAGCA 60
Query 1945 TGTAATAAATT-AACATGTAATGCATGACGTTATTTATGAGAT-GGGTTTTATGATT-AG 2001
Sbjct 61 TGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGGTTTTATGATTAAAG 120
Query 2002 AGT-CCCGCAATTATACA-TTTAATACGCGATAG-AAAACAAAATATAGCGCGCAAACACT- 2057
Sbjct 121 AGTCCCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCCCAAACATA 180
Query 2058 AGGATA 2063

Sbjct 181 AGGATA 186

>lcl|Amplicon 320 non-redundant amplicon of 22 matches

Length=220

Score = 248 bits (274), Expect = 4e-67
Identities = 180/220 (82%), Gaps = 40/220 (18%)
Strand=Plus/Plus

Query 1885 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAAATTTCTGTTGAATTACGTTAAGCA 1944
Sbjct 1 GAATCCTGTTGCCGGTCTTGCATGATTATCATATAAATTTCTGTTGAATTACGTTAAGCA 60
Query 1945 TGTAATAATTAACATGTAATGCA----- 1967



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|||||
Sbjct 61 TGTAATAATTAACATGTAATGCACAGATAGGCCTAACGCTTGTCCTCAAGATCTATTCAGGT 120
Query 1968 ---TGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATACATTTAAT 2024
|||||
Sbjct 121 GCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATACATTTAAT 180
Query 2025 ACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAA 2064
|||||
Sbjct 181 ACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAA 220

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>[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 GCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATACATTTAAT 2024
|||||
Sbjct 1 GCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATACATTTAAT 60
Query 2025 ACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 2082
|||||
Sbjct 61 ACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 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 GCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATACATTTAAT 2024
|||||
Sbjct 1 GCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATACATTTAAT 60
Query 2025 ACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 2080
|||||
Sbjct 61 ACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 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 GCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATACATTTAAT 2024
|||||
Sbjct 1 GCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATACATTTAAT 60
Query 2025 ACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 2082
|||||
Sbjct 61 ACGCGATAGAAAACAAAATATANCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 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 GCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATACATTTAAT 2024
|||||
Sbjct 1 GCATGACGTTATCTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATACATTTAAT 60
Query 2025 ACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 2082
|||||
Sbjct 61 ACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 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 GCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATACATTTAAT 2024
|||||
Sbjct 1 GCATGACGTTATTTATGAGATGGGTTTTTACGATTAGAGTCCCGCAATTATACATTTAAT 60
Query 2025 ACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 2082
|||||
Sbjct 61 ACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTC 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 GCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATACATTTAAT 2024  
|  
Sbjct 1 GCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATACATTTAAT 60  
Query 2025 ACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGT 2079  
|  
Sbjct 61 ACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGT 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 GCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATACATTTAAT 2024  
|  
Sbjct 1 GCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATACATTTAAT 60  
Query 2025 ACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 2082  
|  
Sbjct 61 ACGCGATAGAAAACAAAATATAGCGCGCAAACCTGGGATAAAATTATCGCGCGCGGTGTC 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 GCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATACATTTAAT 2024  
|  
Sbjct 1 GCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATACATTTAAT 60  
Query 2025 ACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 2082  
|  
Sbjct 61 ACGCGATAGAAAACAGAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 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 GCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATACATTTAAT 2024  
|  
Sbjct 1 GCATGACGTTATTTATGAGATGGGTTTTTATGATTAGACTCCCGCAATTATACATTTAAT 60  
Query 2025 ACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 2082  
|  
Sbjct 61 ACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 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 GCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATACATTTAAT 2024  
|  
Strand=Plus/Plus  
Query 1965 GCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATACATTTAAT 2024  
|  
Sbjct 1 GCATGACGTAATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATACATTTAAT 60  
Query 2025 ACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 2082  
|  
Sbjct 61 ACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 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 GCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATACATTTAAT 2024  
|  
Sbjct 1 GCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATACATTTAAT 60  
Query 2025 ACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 2082  
|  
Sbjct 61 ACGCGATAGAAGACAAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 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 GCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATAACATTTAAT 2024  
 |||  
 Sbjct 1 GCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATAACATTTAAT 60  
 Query 2025 ACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 2082  
 |||  
 Sbjct 61 ACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 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 GCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATAACATTTAAT 2024  
 |||  
 Sbjct 1 GCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATAACATTTAAT 60  
 Query 2025 A-CGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 2082  
 |  
 Sbjct 61 ACCGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 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 GCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATAACATTTAAT 2024  
 |||  
 Sbjct 1 GCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATAACATTTAAT 60  
 Query 2025 ACGCGATAGAAAACAAAATATAG-CGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 2082  
 |||  
 Sbjct 1 GCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATAACATTTAAT 60  
 Query 2025 ACGCGATAGAAAACAAAATATAG-CGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 2082  
 |||  
 Sbjct 61 ACGCGATAGAAAACAAAATATAGCCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 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 TGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATAACATTTAA 2023  
 |||  
 Sbjct 1 TGCATGACGTTATT-ATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATAACATTTAA 59  
 Query 2024 TACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 2082  
 |||  
 Sbjct 60 TACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 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 GCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATAACATTTAAT 2024  
 |||  
 Sbjct 1 GCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATAACATTTAAT 60  
 Query 2025 ACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 2082  
 |||  
 Sbjct 61 ACGCGATAGAAAACAAAATATAGCTCGCAAACCTAGGATAAAATTATCGCTCGCGGTGTC 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 GCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATAACATTTAAT 2024  
 |||  
 Sbjct 1 GCATGACGTTGTTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATAACATTTAAT 60  
 Query 2025 ACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 2082  
 ||  
 Sbjct 61 ACACGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 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 GCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATAACATTTAAT 2024  
 |||

Sbjct 1 GCATGACGTTATTTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATAACATTTAAT 60  
 Query 2025 ACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 2082  
 |||  
 Sbjct 61 ACGCGATAGAAAACAAAATATGGCGCGCAAACCTGGGATAAAATTATCGCGCGCGGTGTC 118  
 Query 2025 ACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 2082  
 |||

Sbjct 61 ACGCGATAGAAAACAAAATATGGCGCGCAAACCTGGGATAAAATTATCGCGCGCGGTGTC 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 GCATGACGTTATTTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATAACATTTAAT 2024  
 |||

Sbjct 1 GCATGACGTTATTTTATGAGATGGGTTTTT-TGATTAGAGTCCCGCAATTATAACATTTAAT 59  
 Query 2025 ACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 2082  
 |||

Sbjct 60 ACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 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 GCATGACGTTATTTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATAACATTTAAT 2024  
 |||

Sbjct 1 GCATGACGTTATTTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATAACATTTAAT 60  
 Query 2025 ACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 2082  
 |||

Sbjct 61 ACGCGATAGAAAACAAAATATAGCGCGCAAACCTACCATAAAATTATCGCGCGCGGTGTC 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 CGTTATTTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATAACATTTAATACGCGA 2030  
 |||

Sbjct 7 CGTTATTTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATAACATTTAATACGCGA 66  
 Query 2031 TAGAAAACAAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 2082  
 |||

Sbjct 67 TAGAAAACAAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 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 GCATGACGTTATTTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATAACATTTAAT 2024  
 |||

Sbjct 1 GCATGACGTTATTTTATGAGATGGGTTTTTATGATTACACTCCCCCAATTATAACATTTAAT 60  
 Query 2025 ACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 2082  
 |||

Sbjct 61 ACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 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 GCATGACGTTATTTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATAACATTTAAT 2024  
 |||

Sbjct 1 GCATGACGTTATTTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATAACATTTAAT 60  
 Query 2025 ACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 2082  
 |||

Sbjct 61 ACGCGATAGAAAACAAAATTATGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 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 GCATGACGTTATTTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATAACATTTAAT 2024  
 |||

Sbjct 1 GCATGACGTTATTTTATGAGATGGGTTTT-ATGATTAGAGTCCCGCAATTATAACATTTAAT 59

Query 2025 ACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 2082  
 |||  
 Sbjct 60 ACGCGATAGAAAACAAAATATAGCGCG---ACTAGGATAAAATTATCGCGCGCGGTGTC 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 GCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATACATTTAAT 2024  
 |||  
 Sbjct 1 GCATGACGTTATTTATGAGATGGGTTTTA--GATTGGAGTCCCGCAATTATACATTTAAT 58  
 Query 2025 ACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 2082  
 |||  
 Sbjct 59 ACGCGATAGAAAACAAAATATCGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 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 GCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATACATTTAAT 2024  
 |||  
 Sbjct 1 GCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATACATTTAAT 60  
 Query 2025 ACGCGATAGAAAACAAAATATAGCGCGCAAACCTAGGATAAAATTATCGCGCGCGGTGTC 2082  
 |||  
 Sbjct 61 ACGCGATAGAAAACAAAATAT-----AAACTAGGATAAAATTATCGCGCGCGGTGTC 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 AAGCACATACGTCAGAAACCATTATTGCGCGTTCAAAAGTCGCCTAAGGTCACTATCAGC 483  
 |||  
 Sbjct 1 AAGCACATACGTCAGAAACCATTATTGCGCGTTCAAAAGTCGCCTAAGGTCACTATCAGC 60  
 Query 484 TAGCAAATATTTCTTGTCAAAAATGCTCCACTGA 517  
 |||  
 Sbjct 61 TAGCAAATATTTCTTGTCAAAAATGCTCCACTGA 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 AAGCACATACGTCAGAAACCATTATTGCGCGTTCAAAAGTCGCCTAAGGTCACTATCAGC 483  
 |||  
 Sbjct 1 AAGCACATACGTCAGAAACCATTATTGCGCGTTCAAAAGTCGCCTAAGGTCACTATCAGC 60  
 Query 484 TAGCAAATATTTCTTGTCAAAAATGCTCCACTGA 517  
 |||  
 Sbjct 61 GAGCAAATATTTCTTGTCAAAAATGCTCCACTGA 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 AAGCACATACGTCAGAAACCATTATTGCGCGTTCAAAAGTCGCCTAAGGTCACTATCAGC 483  
 |||  
 Sbjct 1 AAGCAGATACGTCAGAAACCATTATTGCGCGTTCAAAAGTCGCCTAAGGTCACTATCAGC 60  
 Query 484 TAGCAAATATTTCTTGTCAAAAATGCTCCACTGA 517  
 |||  
 Sbjct 61 TAGCAAATATTTCTTGTCAAAAATGCTCCACTGA 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 AAGCACATACGTCAGAAACCATTATTGCGCGTTCAAAAGTCGCCTAAGGTCACTATCAGC 483  
 |||  
 Sbjct 1 AAGCACATACGTCAGAAACCATTATTGCGCGTTCAAAAGTCGCCTAAGGTCACTATCAGC 60  
 Query 484 TAGCAAATATTTCTTGTCAAAAATGCTCCACTG 516  
 |||

Sbjct 61 TAGCAAATATTTCTTTGTCAAAAATGCTCCACTG 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 CATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATA 2016
|||||

Sbjct 1 CATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATA 60

Query 2017 CATTTAATACGCGATAGAAAACAA 2040
|||||

Sbjct 61 CATTTAATACGCGATAGAAAACAA 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 CATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATA 2016
|||||

Sbjct 1 CATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATA 60

Query 2017 CATTTAATACGCGATAGAAAACA 2039
|||||

Sbjct 61 CATTTAATACGCGATAGAAAACA 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 CATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATA 2016
|||||

Sbjct 1 CATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATA 60

Query 2017 CATTTAATACGCGATAGAAAACAA 2040
|||||

Sbjct 61 CATTTAATACGCGATAGAAAACAA 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 CATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATA 2016
|||||

Sbjct 1 CATGTAATGCATGACGTTATTTATGAGATGGGTTTTTACGATTAGAGTCCCGCAATTATA 60

Query 2017 CATTTAATACGCGATAGAAAACAA 2040
|||||

Sbjct 61 CATTTAATACGCGATAGAAAACAA 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 CATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATA 2016
|||||

Sbjct 1 CATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGACTCCCGCAATTATA 60

Query 1957 CATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATA 2016
|||||

Sbjct 1 CATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGACTCCCGCAATTATA 60

Query 2017 CATTTAATACGCGATAGAAAACAA 2040
|||||

Sbjct 61 CATTTAATACGCGATAGAAAACAA 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 CATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATA 2016
|||||

Sbjct 1 CATGTAATGCATGACGTAATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATA 60

Query 2017 CATTTAATACGCGATAGAAAACAA 2040
|||||

Sbjct 61 CATTTAATACGCGATAGAAAACAA 84

[>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 CATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATA 2016

|||||

Sbjct 1 CATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATA 60

Query 2017 CATTTAATACGCGATAGAAAACAA 2040

|||||

Sbjct 61 CATTTAATACGCGATAGAAGACAA 84

[>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 CATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATA 2016

|||||

Sbjct 1 CATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATA 60

Query 2017 CATTTAATA-CGCGATAGAAAACA 2039

|||||

Sbjct 61 CATTTAATACGCGATAGAAAACA 84

[>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 CATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATA 2016

|||||

Sbjct 1 CATGTAATGCATGACGTAATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATAATA 60

Query 2017 CATTTAATACGCGATAGAAAACAA 2040

|||||

Sbjct 1 CATGTAATGCATGACGTAATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATAATA 60

Query 2017 CATTTAATACGCGATAGAAAACAA 2040

|||||

Sbjct 61 CATTTAATACGCGATAGAAAACAA 84

[>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 CATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATA 2016

|||||

Sbjct 1 CATGTAATGCATGACGTTATTTATGAGATGGGTTTTT-ATGATTAGAGTCCCGCAATTATA 59

Query 2017 CATTTAATACGCGATAGAAAACAA 2040

|||||

Sbjct 60 CATTTAATACGCGATAGAAAACAA 83

[>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 CATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATA 2016

|||||

Sbjct 1 CATGTAATGCATGACGTTATTTATGAGATGGGTTTTT-TGATTAGAGTCCCGCAATTATA 59

Query 2017 CATTTAATACGCGATAGAAAACAA 2040

|||||

Sbjct 60 CATTTAATACGCGATAGAAAACAA 83

[>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 TGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATACATTTAA 2023

|||||

Sbjct 8 TGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATACATTTAA 67

Query 2024 TACGCGATAGAAAACAA 2040

|||||

Sbjct 68 TACGCGATAGAAAACAA 84

[>lcl|Amplicon\\_523 non-redundant amplicon of 4 matches](#)

Length=84

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





```
Sbjct 1 GATTAGAGTCCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCTCGCAA 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 GATTAGAGTCCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAA 2055
|||||
Sbjct 1 GATTAGAGTCCCGCAATTATACATTTAATACACGATAGAAAACAAAATATAGCGCGCAA 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 GATTAGAGTCCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAA 2055
|||||
Sbjct 1 GATTAGAGTCCCGCAATAATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAA 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 GATTAGAGTCCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAA 2055
|||||
Sbjct 1 GATTAGAGTCCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAA 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 GATTAGAGTCCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAA 2055
|||||
Sbjct 1 GATTAGAGTCCCGCAATTATACATTTAATACGCGATAGAAAACAGAAATATAGCGCGCAA 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 GATTAGAGTCCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAA 2055
|||||
Sbjct 1 GATTAGAGTCCCGCAATTATACATTTAATACGCGATAGAAGACAAAATATAGCGCGCAA 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 GATTAGAGTCCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAA 2055
|||||
Sbjct 1 GATTAGACTCCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAA 60
Query 2056 CTAGGATAA 2064
```

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|||||||
Sbjct 61 CTAGGATAA 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 GATTAGAGTCCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAA 2055
Identities = 68/69 (99%), Gaps = 0/69 (0%)
Strand=Plus/Plus
Query 1996 GATTAGAGTCCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAA 2055
|||||||
Sbjct 1 GATTAGAGTCCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAC 60
Query 2056 CTAGGATAA 2064
|||||||
Sbjct 61 CTAGGATAA 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 GATTAGAGTCCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAA 2055
|||||||
Sbjct 1 GATTAGAGTCCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAA 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 GATTAGAGTCCCGCAATTATACATTTAATAC-GCGATAGAAAACAAAATATAGCGCGCAA 2054
|||||||
Sbjct 1 GATTAGAGTCCCGCAATTATACATTTAATACCGCGATAGAAAACAAAATATAGCGCGCAA 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 TCAAACACTGATAGTTTAAACTGAAGGCGGGAAACGACAATCTGATCATGAGCGGAGAAT 301
|||||||
Sbjct 22 TCAAACACTGATAGTTTAAACTGAAGGCGGGAAACGACAATCTGATCATGAGCGGAGAAT 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 GATTAGAGTCCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAG-CGCGCAA 2054
|||||||
Sbjct 1 GATTAGAGTCCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCCGCGCAA 60
Query 1996 GATTAGAGTCCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAG-CGCGCAA 2054
|||||||
Sbjct 1 GATTAGAGTCCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCCGCGCAA 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 GATTAGAGTCCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAA 2055
|||||||
Sbjct 1 GATTAGAGTCCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAA 60
Query 2056 CTAGGATAAA 2065
|||||||

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Sbjct 61 CTAGGATAAA 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 TTAAACTGAAGGCGGGAAACGACAATCTGATCATGAGCGGAGAATTAAGGGAGTCACGTT 316  
 || ||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 11 TTCAACAGAAGGCGGGAAACGACAATCTGATCATGAGCGGAGAATTAAGGGAGTCACGTT 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 TCAAACACTGATAGTTTAAACTGAAGGCGGGAAACGACAATCTGATC 288  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 19 TCAAACACTGATAGTTTAAACTGAAGGCGGGAAACGACAATCTGATC 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 CAAACACTGATAGTTTAAACTGAAGGCGGGAAACGACAATCTGATC 288  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 37 CAAACACTGATAGTTTAAACTGAAGGCGGGAAACGACAATCTGATC 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 TCAAACACTGATAGTTTAAACTGAAGGCGGGAAACGACAATCTGA 286  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 57 TCAAACACTGATAGTTTAAACTGAAGGCGGGAAACGACAATCTGA 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
Sequences producing significant alignments:	(Bits)	Value
<a href="#">lcl Amplicon_159 non-redundant amplicon of 11 matches</a>	<u>176</u>	2e-45

[>lcl|Amplicon 159 non-redundant amplicon of 11 matches](#)  
 Length=139  
 Score = 176 bits (194), Expect = 2e-45  
 Identities = 97/97 (100%), Gaps = 0/97 (0%)  
 Strand=Plus/Plus  
 Query 885 CATAAAGGAAGATGGAGACTTGAGAAGttttttttgactttgttagctttgttgggcg 944  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 1 CATAAAGGAAGATGGAGACTTGAGAAGTTTTTTTTGGACTTTGTTTAGCTTTGTTGGGCG 60  
 Query 945 ttttttttttttGATCAATAACTTTGTTGGGCTTATG 981  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Sbjct 61 TTTTTTTTTTTTGGATCAATAACTTTGTTGGGCTTATG 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

**>lcl|Amplicon\_158 non-redundant amplicon of 22 matches**

Length=130

Score = 113 bits (124), Expect = 3e-26  
 Identities = 62/62 (100%), Gaps = 0/62 (0%)  
 Strand=Plus/Minus

```

Query 17 TCGATTATATTAGGGATTTTTACACAAATAGCCGGCTATATTAATTGTTACTTTTTCTA 76
          |||
Sbjct 62 TCGATTATATTAGGGATTTTTACACAAATAGCCGGCTATATTAATTGTTACTTTTTCTA 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.