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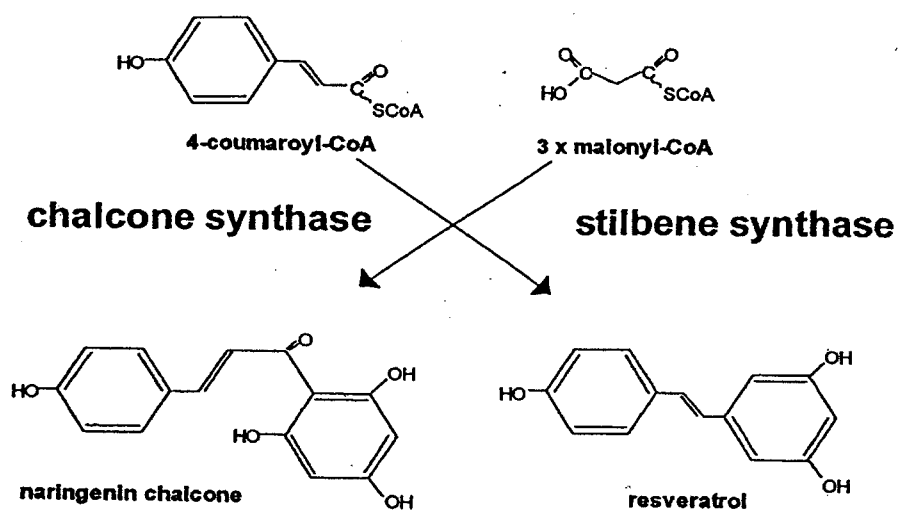


Figure 1

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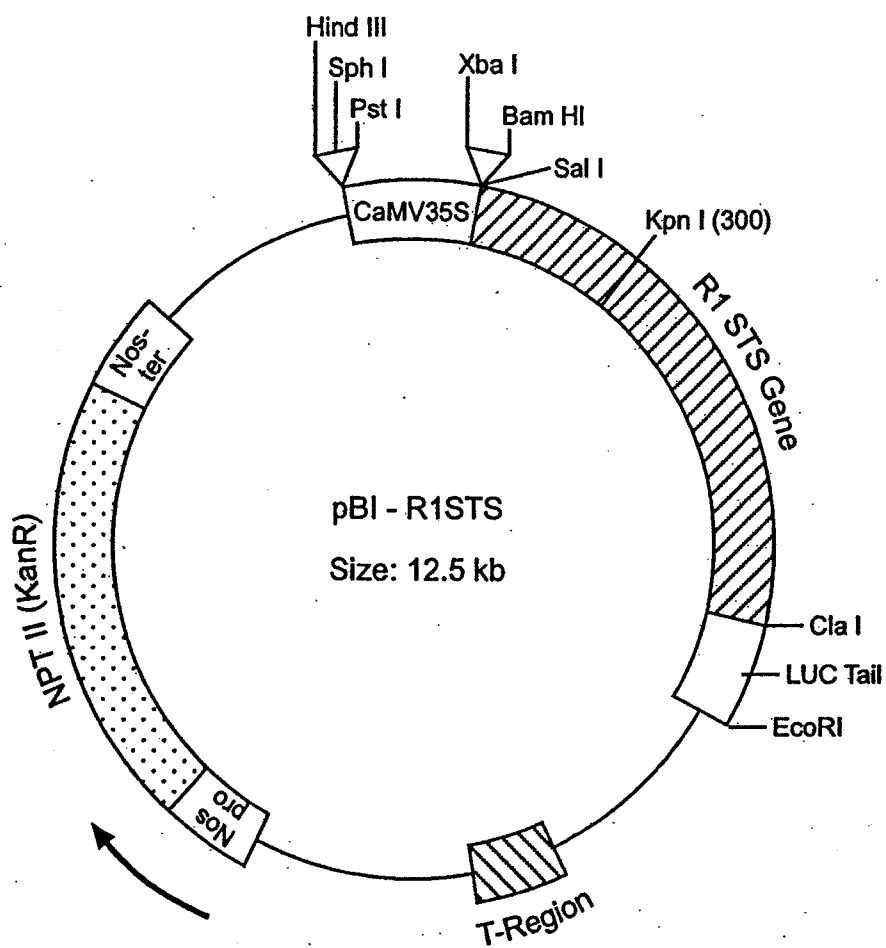


Figure 2A

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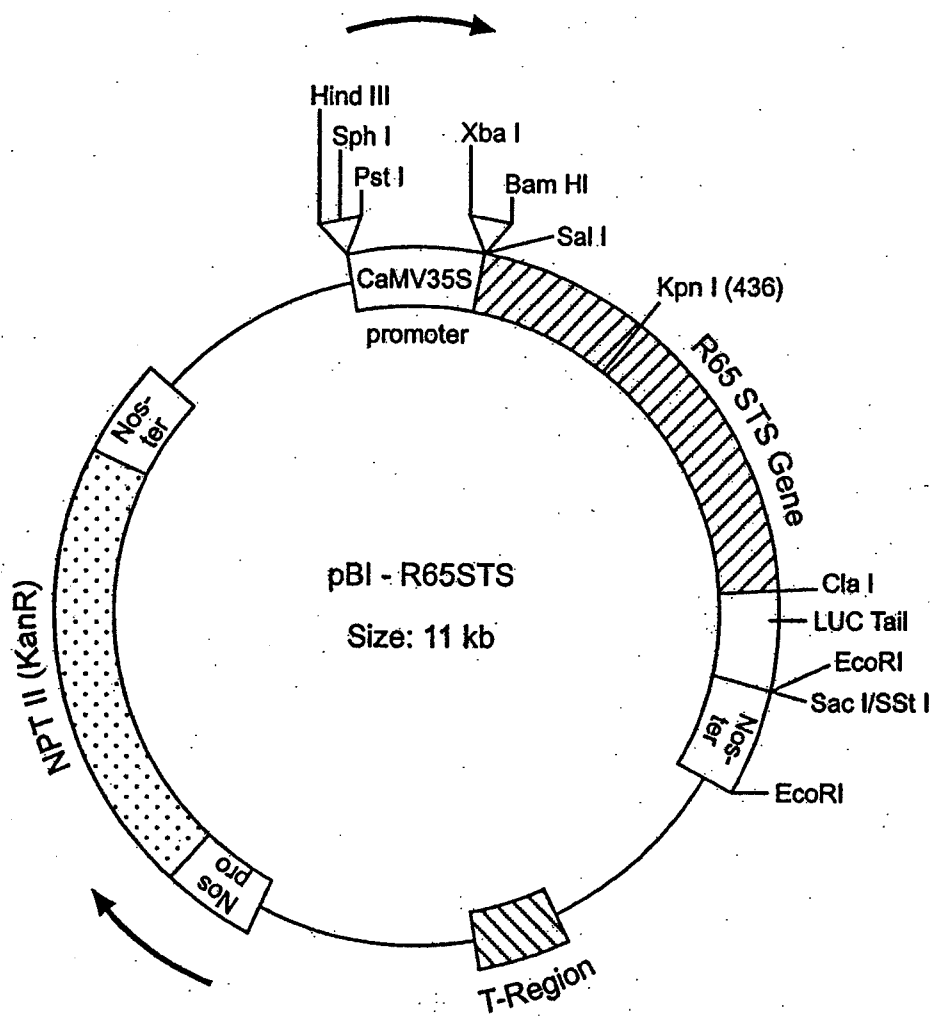


Figure 2B

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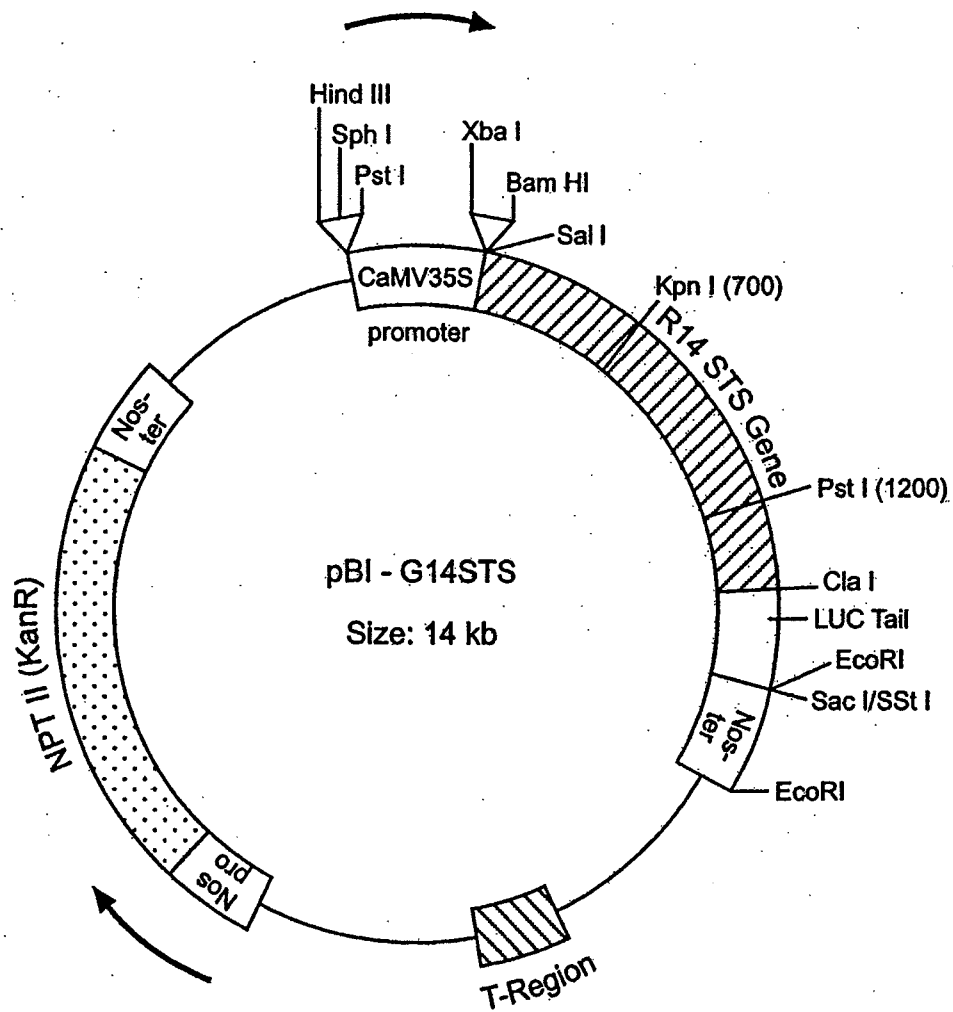


Figure 2C

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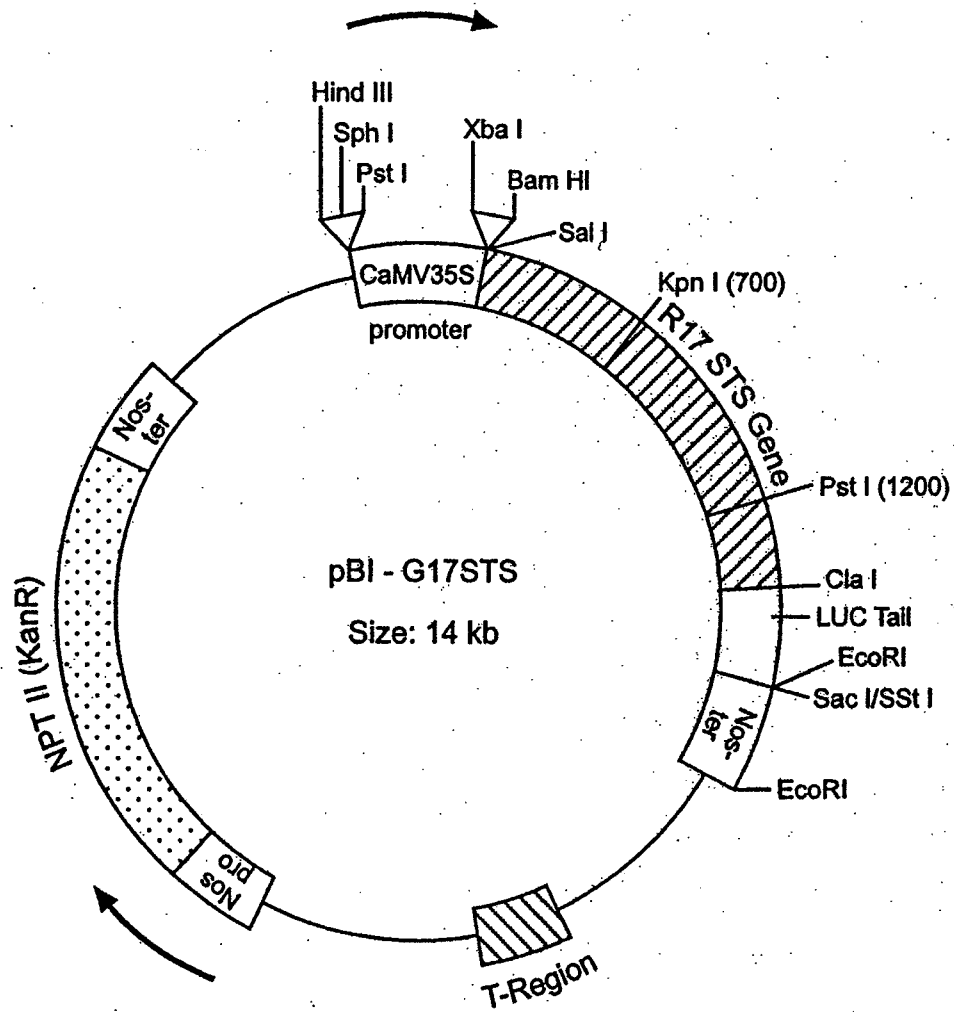


Figure 2D

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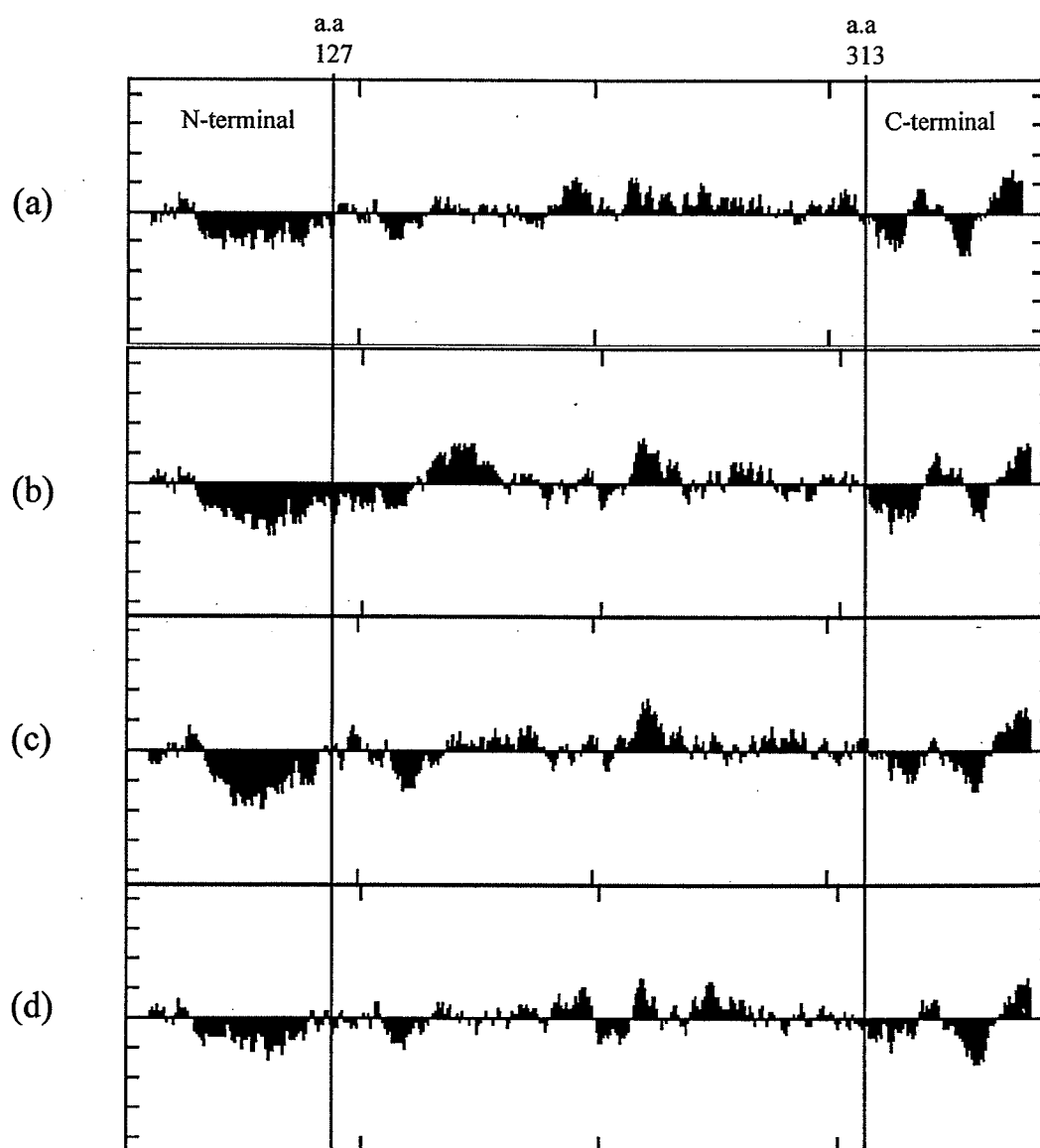


Figure 3

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Page 1.1

1	15	16	30	31	45	46	60	61	75	76	90
1 psv21	CTGAGTCTCTTTTC	TTCCCTCAACTTAATC	TTAGGCTTTAATTG	AGTACGTAGCTGGG	TCAATGGCTTCAGTC	GAGGAAATTAGAAAC	90				
2 v1sts	-----C	TTCCCTCAACTTAATC	TTAGGCTTTAATTG	AGTACGTAGCTGGG	TCAATGGCTTCAGTC	GAGGAAATTAGAAAC	76				
3 psv368	-----	-----	-----	-----	-----GTC	GAGGAAATCAGAAAT	18				
4 Psv25	-----	-----CTTAATC	TTAGGCTTTAATTG	ATTACGTATCTAGCA	TCCATGGCTTCAGTT	GAGGAAATTAGAAAC	67				

Page 2.1

91	105	106	120	121	135	136	150	151	165	166	180
1 psv21	GCTCAACGTGCCAAG	GGTCGGGCCACCATC	CTAGCCATTGGCACA	GCTACCCCGGACAC	TGTGTCTACCAAGTCT	GATTATGCTGATTAC	180				
2 v1sts	GCTCAACGTGCCAAG	GGTCGGGCCACCATC	CTAGCCATTGGCACA	GCTACCCCGGACAC	TGTGTCTACCAAGTCT	GATTATGCTGATTAC	166				
3 psv368	GCTCAACGTGCCAAG	GGTCGGGCCACCATC	CTAGCCATTGGCACA	GCTACCCCGGACAC	TGTGTCTACCAAGTCT	GATTATGCTGATTAC	108				
4 Psv25	GCTCAACGTGCCAAG	GGTCGGGCCACCATC	CTAGCCATTGGCACA	GCTACTCCTGACCCAC	TGTGTCTACCAAGTCT	GATTATGCTGATTAC	157				

Page 3.1

181	195	196	210	211	225	226	240	241	255	256	270
1 psv21	TATTTACGGGTCACT	AAGAGCGAGCACATG	ACTGCGTTGAAGAAG	AACTTCAATCGCATA	TGTGACAAATCCATG	ATCAAGAAGCGTTTAC	270				
2 v1sts	TATTTACGGGTCACT	AAGAGCGAGCACATG	ACTGCGTTGAAGAAG	AACTTCAATCGCATA	TGTGACAAATCCATG	ATCAAGAAGCGTTTAC	256				
3 psv368	TATTTACGGGTCACT	AAGAGCGAGGCCATG	TCTGAGTTGAAGAAG	AACTTCAATCGCATA	TGTGACAAATCCATG	ATCAAGAAGCGTTTAC	198				
4 Psv25	TATTTACGGGTCACT	AAGAGCGAGCACATG	ACTGAGTTGAAGAAG	AACTTCAATCGCATA	TGTGACAAATCCATG	ATCAAGAAGCGTTTAC	247				

Page 4.1

271	285	286	300	301	315	316	330	331	345	346	360
1 psv21	ATTCAATTGACCGAA	GAATGCTTGAGGAG	CACCCAAACATTGGT	GCTTATATGGCTCCA	TCTCTTAACATACGC	CAAGAGATTATCACT	360				
2 v1sts	ATTCAATTGACCGAA	GAATGCTTGAGGAG	CACCCAAACATTGGT	GCTTATATGGCTCCA	TCTCTTAACATACGC	CAAGAGATTATCACT	346				
3 psv368	ATTCAATTGACCGAA	GAATGCTTGAGGAG	CACCCAAACATTGGG	GCTTATATGGCTCCA	TCTCTTAACATACGC	CAAGAGATTATCACT	288				
4 Psv25	ATTCACTTGACCGAA	GAATGCTTGAGGAG	CACCCAAACATTGGT	GCTTATATGGCTCCA	TCTCTTAACATACGC	CAAGAGATTATCACT	337				

Page 5.1

361	375	376	390	391	405	406	420	421	435	436	450
1 psv21	GCTGAGGTACCCAAAG	CTCGGTAAGGAAGCA	GCATTGAAGGCTCTT	AAAGAGTGGGGTCCAG	CCTAAATCGAAGATC	ACCCACCTTGTATT	450				
2 v1sts	GCTGAGGTACCCAAAG	CTCGGTAAGGAAGCA	GCATTGAAGGCTCTT	AAAGAGTGGGGTCCAG	CCTAAATCGAAGATC	ACCCACCTTGTATT	436				
3 psv368	GCTGAGGTACCCAAAG	CTTGGGAAGGAAGCA	GCATTGAAGGCTCTT	AAAGAGTGGGGTCCAA	CCCAATCAAGATC	ACCCATCTTGTATT	378				
4 Psv25	GCTGAGGTACCTAGA	CTTGGTAGGATGCA	GCATTGAAGGCTCTT	AAAGAGTGGGGCCAA	CCAAAGTCCAAGATC	ACCCATCTTGTATT	427				

Figure 4A

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Page 6.1		451	465	466	480	481	495	496	510	511	525	526	540
1	psv21	TGTACCACTCAGGT	GTAGAAATGCCTGGT	GCAGATTATAAATC	GCTAATCTTTTAGGT	CTCGAACCATCGGC	CTCGAACCATCGGC	CTCGAACCATCGGC	CTCGAACCATCGGC	CTCGAACCATCGGC	CTCGAACCATCGGC	CTCGAACCATCGGC	540
2	vv1sts	TGTACCACTCAGGT	GTAGAAATGCCTGGT	GCAGATTATAAATC	GCTAATCTTTTAGGT	CTCGAACCATCGGC	CTCGAACCATCGGC	CTCGAACCATCGGC	CTCGAACCATCGGC	CTCGAACCATCGGC	CTCGAACCATCGGC	CTCGAACCATCGGC	526
3	psv368	TGTACCACTCAGGT	GTAGAAATGCCTGGT	GCAGATTATAAATC	GCTAATCTTTTAGGT	CTCGAACCATCGGC	CTCGAACCATCGGC	CTCGAACCATCGGC	CTCGAACCATCGGC	CTCGAACCATCGGC	CTCGAACCATCGGC	CTCGAACCATCGGC	468
4	psv25	TGTACCACTCAGGT	GTAGAAATGCCTGGT	GCAGATTATAAATC	GCTAATCTTTTAGGT	CTCGAACCATCGGC	CTCGAACCATCGGC	CTCGAACCATCGGC	CTCGAACCATCGGC	CTCGAACCATCGGC	CTCGAACCATCGGC	CTCGAACCATCGGC	517
Page 7.1		541	555	556	570	571	585	586	600	601	615	616	630
1	psv21	GACCAAGAGGTC	TATGCAGGTGGAAT	GTCCCTTCGAACCGCT	AAGGATCTTGCAGAG	AATAATGCAGGAGCA	CGAGTTCTTGTGGTG	CGAGTTCTTGTGGTG	CGAGTTCTTGTGGTG	CGAGTTCTTGTGGTG	CGAGTTCTTGTGGTG	CGAGTTCTTGTGGTG	630
2	vv1sts	TACCATCAAGGTGC	TATGCAGGTGGAAT	GTCCCTTCGAACCGCT	AAGGATCTTGCAGAG	AATAATGCAGGAGCA	CGAGTTCTTGTGGTG	CGAGTTCTTGTGGTG	CGAGTTCTTGTGGTG	CGAGTTCTTGTGGTG	CGAGTTCTTGTGGTG	CGAGTTCTTGTGGTG	616
3	psv368	TACCATCAAGGTGC	TATGCAGGTGGAAT	GTCCCTTCGAACCGCT	AAGGATCTTGCAGAG	AATAATGCAGGAGCA	CGAGTTCTTGTGGTG	CGAGTTCTTGTGGTG	CGAGTTCTTGTGGTG	CGAGTTCTTGTGGTG	CGAGTTCTTGTGGTG	CGAGTTCTTGTGGTG	558
4	psv25	TACCATCAAGGTGC	TATGCAGGTGGAAT	GTCCCTTCGAACCGCT	AAGGATCTTGCAGAG	AATAATGCAGGAGCA	CGAGTTCTTGTGGTG	CGAGTTCTTGTGGTG	CGAGTTCTTGTGGTG	CGAGTTCTTGTGGTG	CGAGTTCTTGTGGTG	CGAGTTCTTGTGGTG	607
Page 8.1		631	645	646	660	661	675	676	690	691	705	706	720
1	psv21	TGCTCTGAGATCACA	GTTGTTACATTTTCGT	GGCCCTTCGGAAGAT	GCTTTGGACTCTTTA	GTTGGCCAAAGCCCTT	TTTGGTGATGGGTCT	TTTGGTGATGGGTCT	TTTGGTGATGGGTCT	TTTGGTGATGGGTCT	TTTGGTGATGGGTCT	TTTGGTGATGGGTCT	720
2	vv1sts	TGCTCTGAGATCACA	GTTGTTACATTTTCGT	GGCCCTTCGGAAGAT	GCTTTGGACTCTTTA	GTTGGCCAAAGCCCTT	TTTGGTGATGGGTCT	TTTGGTGATGGGTCT	TTTGGTGATGGGTCT	TTTGGTGATGGGTCT	TTTGGTGATGGGTCT	TTTGGTGATGGGTCT	706
3	psv368	TGCTCTGAGATCACA	GTTGTTACATTTTCGT	GGCCCTTCGGAAGAT	GCTTTGGACTCTTTA	GTTGGCCAAAGCCCTT	TTTGGTGATGGGTCT	TTTGGTGATGGGTCT	TTTGGTGATGGGTCT	TTTGGTGATGGGTCT	TTTGGTGATGGGTCT	TTTGGTGATGGGTCT	648
4	psv25	TGCTCTGAGATCACA	GTTGTTACATTTTCGT	GGCCCTTCGGAAGAT	GCTTTGGACTCTTTA	GTTGGCCAAAGCCCTT	TTTGGTGATGGGTCT	TTTGGTGATGGGTCT	TTTGGTGATGGGTCT	TTTGGTGATGGGTCT	TTTGGTGATGGGTCT	TTTGGTGATGGGTCT	697
Page 9.1		721	735	736	750	751	765	766	780	781	795	796	810
1	psv21	GCAGCTGTAATCGTA	GGATCAGATCCGGAT	ATCTCAATTGAACGA	CCACTCTTCCAGCTT	GTCTCAGCAGCCCAA	ACATTTATTCCTAAT	ACATTTATTCCTAAT	ACATTTATTCCTAAT	ACATTTATTCCTAAT	ACATTTATTCCTAAT	ACATTTATTCCTAAT	810
2	vv1sts	GCAGCTGTAATCGTA	GGATCAGATCCGGAT	ATCTCAATTGAACGA	CCACTCTTCCAGCTT	GTCTCAGCAGCCCAA	ACATTTATTCCTAAT	ACATTTATTCCTAAT	ACATTTATTCCTAAT	ACATTTATTCCTAAT	ACATTTATTCCTAAT	ACATTTATTCCTAAT	796
3	psv368	GCAGCTGTAATCGTA	GGATCAGATCCAGAT	GTCTCAATTGAACGA	CCACTCTTCCAGCTT	GTCTCAGCAGCCCAA	ACATTTATTCCTAAT	ACATTTATTCCTAAT	ACATTTATTCCTAAT	ACATTTATTCCTAAT	ACATTTATTCCTAAT	ACATTTATTCCTAAT	738
4	psv25	TCAGCTGTGATTGTT	GGATCAGATCCAGAT	GTCTCAATTGAACGA	CCACTCTTCCAGCTT	GTCTCAGCAGCCCAA	ACATTTATTCCTAAT	ACATTTATTCCTAAT	ACATTTATTCCTAAT	ACATTTATTCCTAAT	ACATTTATTCCTAAT	ACATTTATTCCTAAT	787
Page 10.1		811	825	826	840	841	855	856	870	871	885	886	900
1	psv21	TCTGCAGGTGCCATT	GCAGGAAACTTACGT	GAGTGGGACTCACC	TTTCATTGTGGCCC	AATGTGCCCACTTTA	ATTCTGAGAACATA	ATTCTGAGAACATA	ATTCTGAGAACATA	ATTCTGAGAACATA	ATTCTGAGAACATA	ATTCTGAGAACATA	900
2	vv1sts	TCTGCAGGTGCCATT	GCAGGAAACTTACGT	GAGTGGGACTCACC	TTTCATTGTGGCCC	AATGTGCCCACTTTA	ATTCTGAGAACATA	ATTCTGAGAACATA	ATTCTGAGAACATA	ATTCTGAGAACATA	ATTCTGAGAACATA	ATTCTGAGAACATA	886
3	psv368	TCTGCAGGTGCCATT	GCAGGAAACTTACGT	GAGTGGGACTCACC	TTTCATTGTGGCCC	AATGTGCCCACTTTA	ATTCTGAGAACATA	ATTCTGAGAACATA	ATTCTGAGAACATA	ATTCTGAGAACATA	ATTCTGAGAACATA	ATTCTGAGAACATA	828
4	psv25	TCTGCAGGTGCCATT	GCAGGAAACTTACGT	GAGTGGGACTCACC	TTTCATTGTGGCCC	AATGTGCCCACTTTG	ATTCTGAGAACATA	ATTCTGAGAACATA	ATTCTGAGAACATA	ATTCTGAGAACATA	ATTCTGAGAACATA	ATTCTGAGAACATA	877

Figure 4B

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Page 11.1		901	915 916	930 931	945 946	960 961	975 976	990
1	psv21	GAGAAATGTTTGACT	CAGGCTTTTGACCA	CTTGGTATTAGCGAT	TGGAACCTCCTTATTT	TGGATTGCTCAACCA	GGTGGCCCTGCAATT	990
2	vl1sts	GAGAAATGTTTGACT	CAGGCTTTTGACCA	CTTGGTATTAGCGAT	TGGAACCTCCTTATTT	TGGATTGCTCAACCA	GGTGGCCCTGCAATT	976
3	psv368	GAGAAATGTTTGACT	CAGGCTTTTGACCA	CTTGGTATTAGCGAT	TGGAACCTCCTTATTT	TGGATTGCTCAACCA	GGTGGCCCTGCAATT	918
4	psv25	GAGAAATGTTTGACT	CAGGCTTTTGACCA	CTTGGTATTAGCGAT	TGGAACCTCCTTATTT	TGGATTGCTCAACCA	GGTGGCCCTGCAATT	967
Page 12.1		991	1005 1006	1020 1021	1035 1036	1050 1051	1065 1066	1080
1	psv21	CTTGATGCAGTTGAA	GCAAAACTCAATT	GATAAAAGAACTC	GAAGCAACGAGGCAT	GTGCTAAGTGAGTAT	GGAAACATGTCAAGT	1080
2	vl1sts	CTTGATGCAGTTGAA	GCAAAACTCAATT	GATAAAAGAACTC	GAAGCAACGAGGCAT	GTGCTAAGTGAGTAT	GGAAACATGTCAAGT	1066
3	psv368	CTTGATGCAGTTGAA	GCAAAACTCAATT	GATAAAAGAACTC	GAAGCAACGAGGCAT	GTGCTAAGTGAGTAT	GGAAACATGTCAAGT	1008
4	psv25	CTTGATGCAGTTGAA	GCAAAACTCAATT	GATAAAAGAACTC	GAAGCAACGAGGCAT	GTGCTAAGTGAGTAT	GGAAACATGTCAAGT	1057
Page 13.1		1081	1095 1096	1110 1111	1125 1126	1140 1141	1155 1156	1170
1	psv21	GCATGTGTGTTGTTT	ATTTTGGATGAGATG	AGAAAGAAATCCCTT	AAGGGGGAGAGGCC	ACCACGGGTGAAGGA	TTGGATTGGGGAGTA	1170
2	vl1sts	GCATGTGTGTTGTTT	ATTTTGGATGAGATG	AGAAAGAAATCCCTT	AAGGGGGAGAGGCC	ACCACGGGTGAAGGA	TTGGATTGGGGAGTA	1156
3	psv368	GCATGTGTGTTGTTT	ATTTTGGATGAGATG	AGAAAGAAATCCCTT	AAGGGGGAGAGGCC	ACCACGGGTGAAGGA	TTGGATTGGGGAGTA	1098
4	psv25	GCATGTGTGTTGTTT	ATTTTGGATGAGATG	AGAAAGAAATCCCTT	AAGGGGGAGAGGCC	ACCACGGGTGAAGGA	TTGGATTGGGGAGTA	1147
Page 14.1		1171	1185 1186	1200 1201	1215 1216	1230 1231	1245 1246	1260
1	psv21	TTATTTGGTTTTTGGG	CCAGGCTTGACTATT	GAAACTGTTGTGTTG	CATAGCATTCCTATG	GTGACAAATTAAAGT	AAGGAAAGAGAAATG	1260
2	vl1sts	TTATTTGGTTTTTGGG	CCAGGCTTGACTATT	GAAACTGTTGTGTTG	CATAGCATTCCTATG	GTGACAAATTAAAGT	AAGGAAAGAGAAATG	1246
3	psv368	TTATTTGGTTTTTGGG	CCAGGCTTGACTATT	GAAACTGTTGTGTTG	CATAGCATTCCTATG	GTGACAAATTAAAGT	AAGGAAAGAGAAATG	1188
4	psv25	TTATTTGGTTTTTGGG	CCAGGCTTGACTATT	GAAACTGTTGTGTTG	CATAGCATTCCTATG	GTGACAAATTAAAGT	AAGGAAAGAGAAATG	1237
Page 15.1		1261	1275 1276	1290 1291	1305 1306	1320 1321	1335 1336	1350
1	psv21	GT---CCCTTCAATG	TCCTATTATGTGAA	TAGAGT-----AAG	GTATTTATCTCCGAA	ACTAAATTATA-----	-----	1323
2	vl1sts	GT---CCCTTCAATG	TCCTATTATGTGAA	TAGAGT-----AAG	GTATTTATCTCCGAA	ACTAAATTACTCT	TATACTATTTATTA	1328
3	psv368	GT---CCCTTCAATG	TCCTATTATGTGAA	TAGAGT-----AAG	GTATTTATCTCCGAA	ACTAAATTACTCT	TATACTATTTATTA	1251
4	psv25	GTGACCCCTTCAATG	CGGTAATGTATCAAA	TAGAGT---TTATAC	TTATTTATCTCCGAA	ACTAAATTACTCT	TTATACTATTTATTA	1300

Figure 4C

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Page 16.1

	1351	1365	1366	1380	1381	1395	1396	1410	1411	1425	1426	1440
1 psv21	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2 vvlsts	TTTTTCTAAATT	AGATTGTAATCTAGT	GATTGTTAGACCCCTC	TTGGTGAGCTCAAAT	GAAACGGTTGAGTTT	CAAGTTCAGACTGTT	-----	-----	-----	-----	-----	1323
3 psv368	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1418
4 Psv25	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1251
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1300

Page 17.1

	1441	1455	1456	1470	1471	1485	1486	1500	1501	1515	1516	1530
1 psv21	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2 vvlsts	TTATCATCTTGAAGA	TTCCCTAAACATTGT	AATGTTGTCTTCATA	TGAACATTATTGAAA	AGTAATAAAGAAA	TATTGGATTTTGATA	-----	-----	-----	-----	-----	1323
3 psv368	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1508
4 Psv25	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1251
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1300

Page 18.1

	1531	1545	1546	1560	1561	1575	1576	1590	1591	1605	1606	1620
1 psv21	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2 vvlsts	AAAAAAAAAAAAAA	AAAAAAAAAAAAAA	AAAAAAAAAAAAAA	AAAAAAAAAAAAAA	AAAAAAAAAAAAAA	1323	-----	-----	-----	-----	-----	-----
3 psv368	-----	-----	-----	-----	-----	1547	-----	-----	-----	-----	-----	-----
4 Psv25	-----	-----	-----	-----	-----	1251	-----	-----	-----	-----	-----	-----
	-----	-----	-----	-----	-----	1300	-----	-----	-----	-----	-----	-----

Figure 4D

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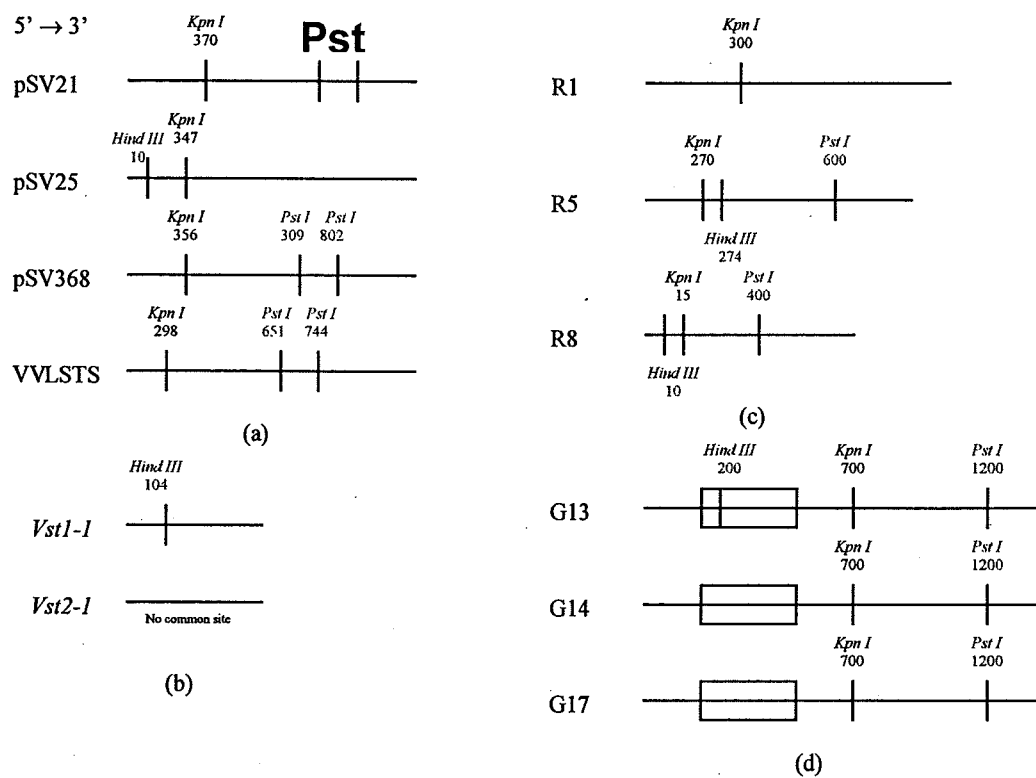


Figure 5

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Page 1.1

1 15 16 30 31 45 46 60 61 75 76 90
 1 v1lsts CTTCTCAACTTAAT CTTAGGCTTAATTT GAGTACGTAGCTGGG ATCAATGGCTTTCAGT CGAGGAAATTAGAAA CGCTCAACGTGCCAA 90
 2 g352a#14/pgem-T + CTTCTCAACTTAAT CTTAGGCTTAATTT GAGTACGTAGCTGGG ATCAATGGCTTTCAGT CGAGGAAATTAGAAA CGCTCAACGTGCCAA 90
 3 R352A#6/pgem-T + CTTCTCAACTTAAT CTTAGGCTTAATTT GAGTACGTAGCTGGG ATCAATGGCTTTCAGT CGAGGAAATTAGAAA CGCTCAACGTGCCAA 90

Page 2.1

91 105 106 120 121 135 136 150 151 165 166 180
 1 v1lsts GGGTCCGGCCACCAT CCTAGCCATTGGCAC AGCTACCCCGGACCA CTGTGTCTACCACTG TGAATTGCTGATTT CTATTTTCAGGGTCAC 180
 2 g352a#14/pgem-T + GGGTCCGGCCACCAT CCTAGCCATTGGCAC AGCTACCCCGGACCA CTGTGTCTACCACTG TGAATTGCTGATTT CTATTTTCAGGGTCAC 180
 3 R352A#6/pgem-T + GGGTCCGGCCACCAT CCTAGCCATTGGCAC AGCTACCCCGGACCA CTGTGTCTACCACTG TGAATTGCTGATTT CTATTTTCAGGGTCAC 98

Page 3.1

181 195 196 210 211 225 226 240 241 255 256 270
 1 v1lsts TAAGAGCGAGCACAT GACTGCGTTGAAGAA GAAGTTCATCGCAT ATGTGACAA-ATCCA TGATCAAGAAGCG-T TACATTCATTTGA-- 270
 2 g352a#14/pgem-T + TAAGAGCGAGCACAT GACTGCGTTGAAGAA GAAGTTCATCGCAT ATGTGACAA-ATCCA TGATCAAGAAGCG-T TACATTCATTTGA-- 266
 3 R352A#6/pgem-T + TAAGAGCGAGCACAT GACTGCGTTGAAGAA GAAGTTCATCGCAT ATGTGACAA-ATCCA TGATCAAGAAGCG-T TACATTCATTTGA-- 268

Page 4.1

271 285 286 300 301 315 316 330 331 345 346 360
 1 v1lsts -CCGAAGAAATGCTT GAGGAGCACCCAAAC ATTGGTGCTTATATG GCTCCATCTCTTAAC ATACGCAAGA-GAT TATCACTGCTGAGGT 360
 2 g352a#14/pgem-T + TCTGTATATATG--T GACTGACA--C-- --TAGTGA-----G GCTC-----AC CT--CCAAAGT-GA- -ATGAATGTTG---- 354
 3 R352A#6/pgem-T + -CGAAGGAATC--- GATAATCA--C-- --TAGTGC-----N-N-----N GC-CTGCGAGGTGAC CAT-ATGGGTGTGC- 324

Page 5.1

361 375 376 390 391 405 406 420 421 435 436 450
 1 v1lsts ACCCAAGCTCGGTAA G-GAAGCAGCATTTGA AGGCTCTTAAAGAGT GGGGTGAGCTTAAT CGAAGATCACCCACC TT-GT-ATTTTGTAC 450
 2 g352a#14/pgem-T + ---CAATCTTTCTAG A-GTAT-AGCTTTTA GA-----TAAATAGT A-----CAG--AAACT TGAA-ATTATTACT TCAGT-AGCTAATAT 396
 3 R352A#6/pgem-T + ACCCAA-CGCGTTGG ATGCAT-AGC-TTGA GTA---TTCATAGT G---TCACC-TAAAT AGCTTGGCGCTAATC ATGGTCATGCTGTTT 317

Page 6.1

451 465 466 480 481 495 496 510 511 525 526 540
 1 v1lsts -CACTCGGCTGTAG AAATGCTG-GTGCA GATTATAAAGCTCGCT AATCTTTTGTAGTCTC GAACCATCCGTCAGA AGAGTGATGTTGTAC 529
 2 g352a#14/pgem-T + TCATTTTCATCTGACT TAATGCTTGAGAGCT GTCITTGA--TAGTT ----- 439
 3 R352A#6/pgem-T + -C----- --TAGTT ----- 318

Figure 6

Page 1.1

1 15 16 30 31 45 46 60 61 75 76 90 76
 1 R352A#12/PGEM-T + TTCTCAACTTAATC TTAAGCTTTCAATTC AGTACGTAGCCAGGC ATCAATGGCCTTTCAG TTGAGGCAATTAGAA
 2 9352a#13/PGEM-T + TTCTCAACTTAATC TTAAGCTTTCAATTC AGTACGTATCT-GGC ATCCATGGC-TTCAG TCGAGGAATTAGAA
 3 psv21 CTGAGTTCTCTTCC TTCTCAACTTAATC TTAGGCTTTAATTG AGTACGTAGCT-GGC ATCAATGGC-TTCAG TCGAGGAATTAGAA 88

Page 2.1

91 105 106 120 121 135 136 150 151 165 166 180 156
 1 R352A#12/PGEM-T + ACGCTCAACCTCAAC CGCCAAGGCCCG--G CCACCATCCTAGCCA TTGGCAGAGCTCACT CCGACCG-TGTGTC TTACCACT--
 2 9352a#13/PGEM-T + ACGCTCAAGC-----C TGCCAAGGGCTCCGG CCACCATCCTAGCCA TTGGCAGAGCT-ACC CCGACCGCTGTGTC T-ACCACTCTGATTA 158
 3 psv21 ACGCTCAACG----- TGCCAAGGGTCC-GG CCACCATCCTAGCCA TTGGCAGAGCT-ACC CCGACCGCTGTGTC T-ACCACTCTGATTA 170

Page 3.1

181 195 196 210 211 225 226 240 241 255 256 270 156
 1 R352A#12/PGEM-T + TGCTGATTACTATTT CAGGGTCACTAAGAG CCGGACACATGACCG AGTTGAAGAAGAAGT TCAATCGCATATGTA AGTACATTCATGCAT 248
 2 9352a#13/PGEM-T + TGCTGATTACTATTT CAGGGTCACTAAGAG C-GAGCACATGACTG CGTTGAAGAAGAAGT TCAATCGCATATGTC AC-AAATCCATGATC 258
 3 psv21

Page 4.1

271 285 286 300 301 315 316 330 331 345 346 360 156
 1 R352A#12/PGEM-T + CAATTTC-TTACATG CATPAACACTTTCTAG ACATATGCGAGTGTG TGCTATTAGGTGAGG CTCACCTTCCAGTTG AATGAATGTTCCAAC 337
 2 9352a#13/PGEM-T + AAGAAGCGTTACATT CATTTGACCGA--AG AATGCTTGAGGAGC ACCCAACATTTGGTG CTTA---TATGGCTC CATCTCTTAACATAC 343
 3 psv21

Page 5.1

361 375 376 390 391 405 406 420 421 435 436 450 156
 1 R352A#12/PGEM-T + GC-CAAGAGATTATC ACTGCTGAGGTACCC AAGCTCGGTAAAGAA GCAGATTGAAGGCT CTTAAAGAGTGGGT CAGCCTAAATCGAAG 357
 2 9352a#13/PGEM-T + TTTCTAGAAGTTAAA GTTTA-----
 3 psv21

Page 6.1

451 465 466 480 481 495 496 510 511 525 526 540 156
 1 R352A#12/PGEM-T + ATCACCCACCTTGTA TTTTGTACACCTCA GGTGTAGAAATGSCCT GGTGAGATTATATAA CTGCTAATCTCTTA GGCCTCGAACCATCT 522
 2 9352a#13/PGEM-T +
 3 psv21

Figure 7

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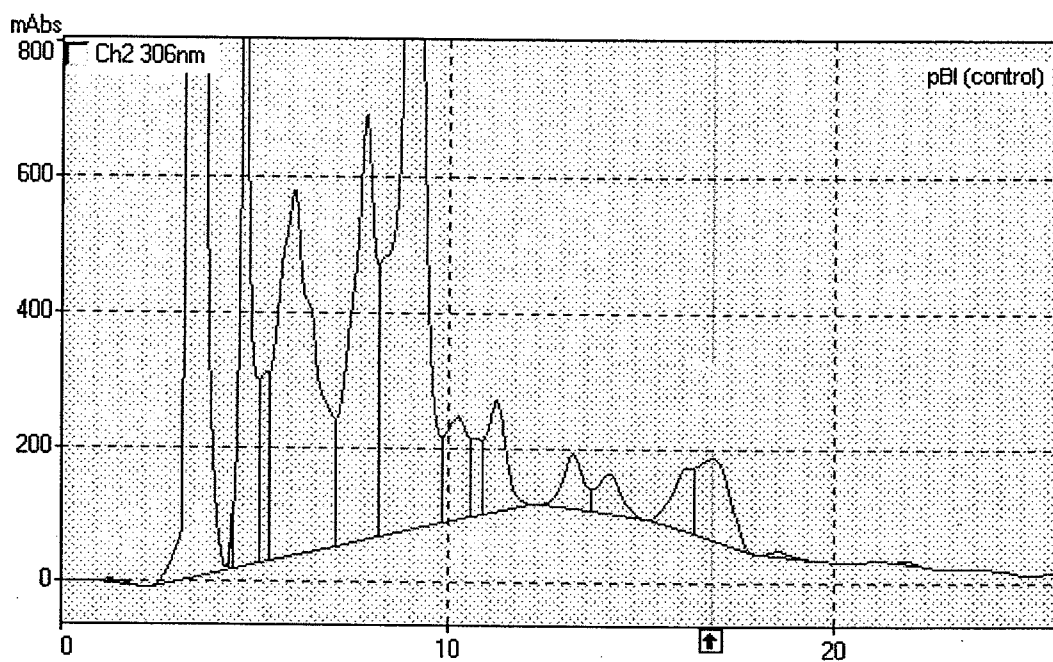


Figure 8A

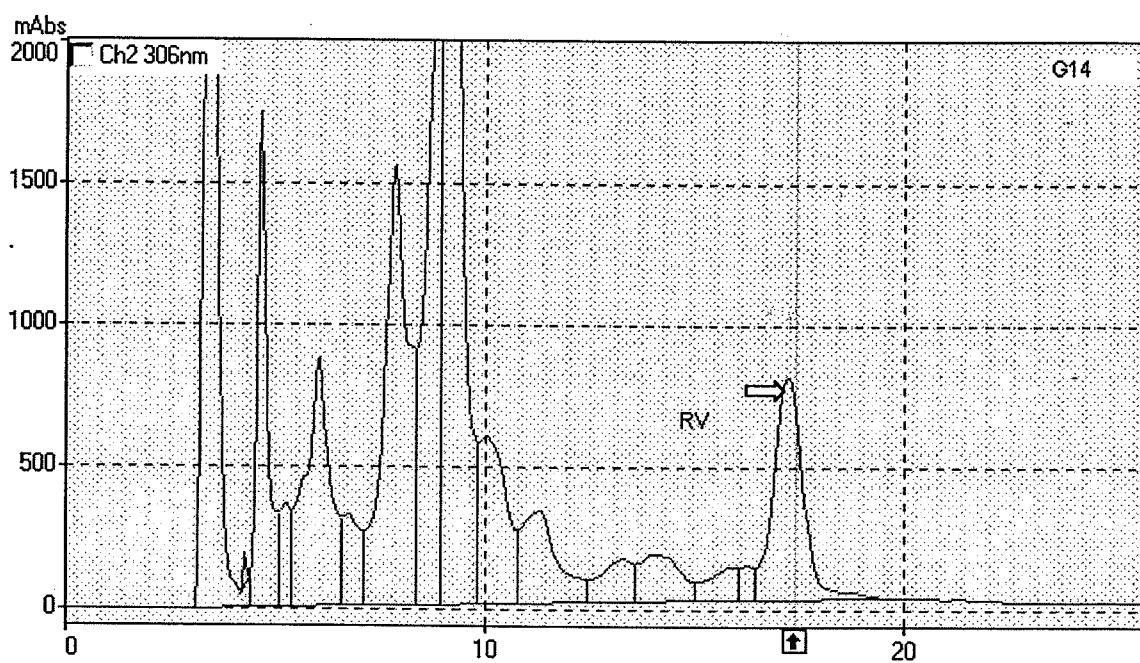


Figure 8B

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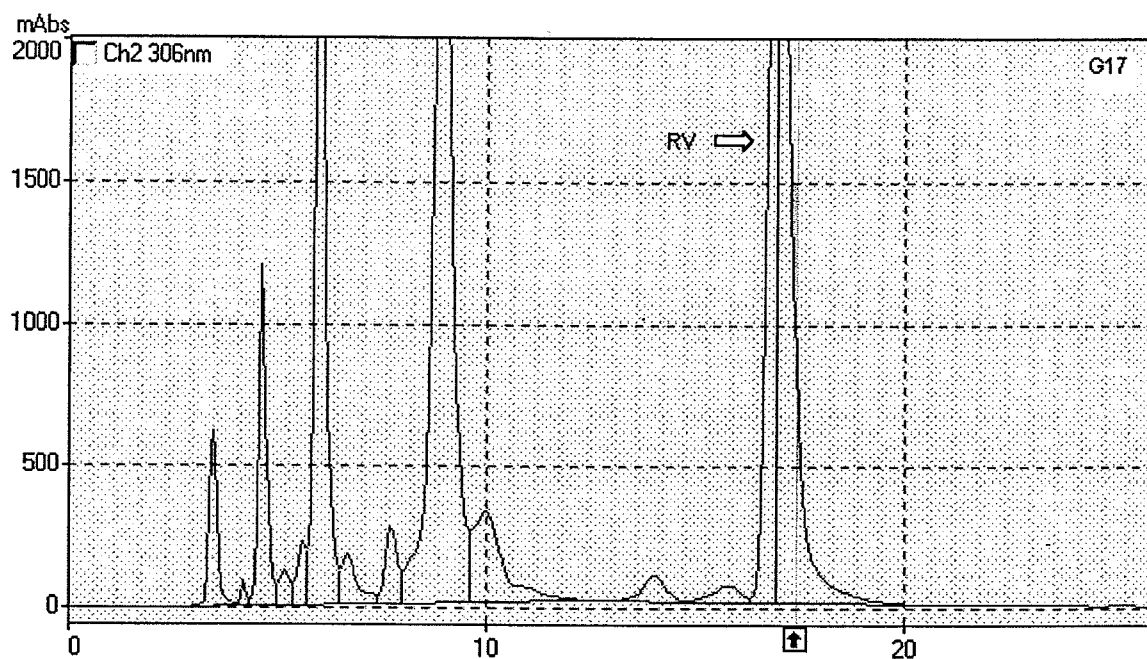


Figure 8C

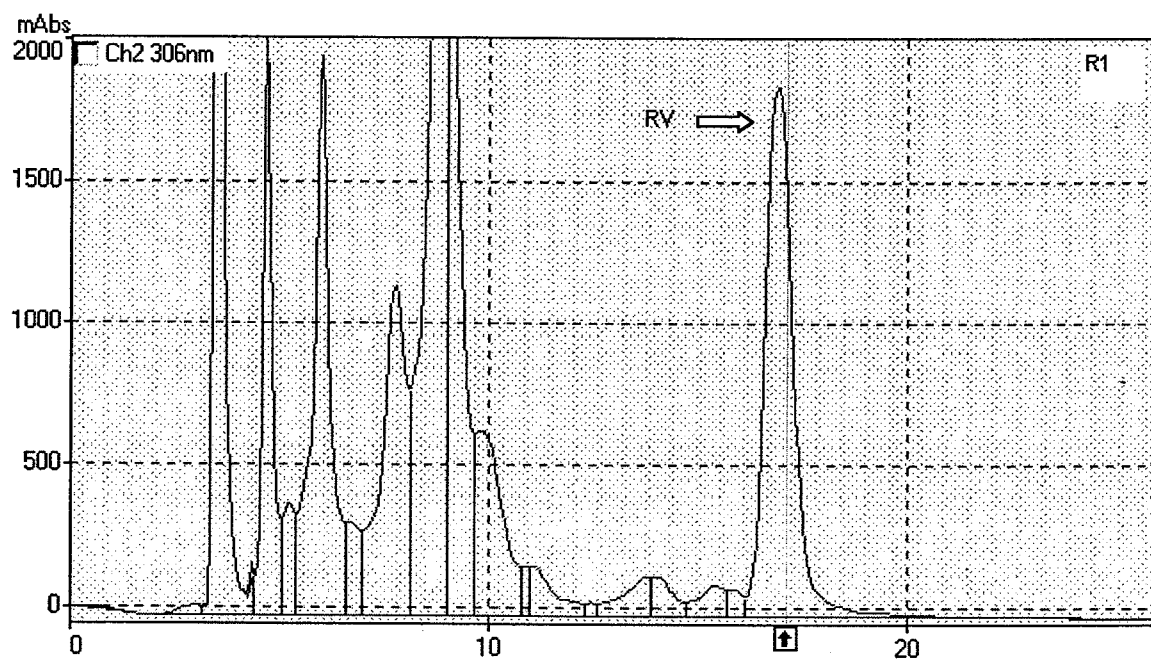


Figure 8D

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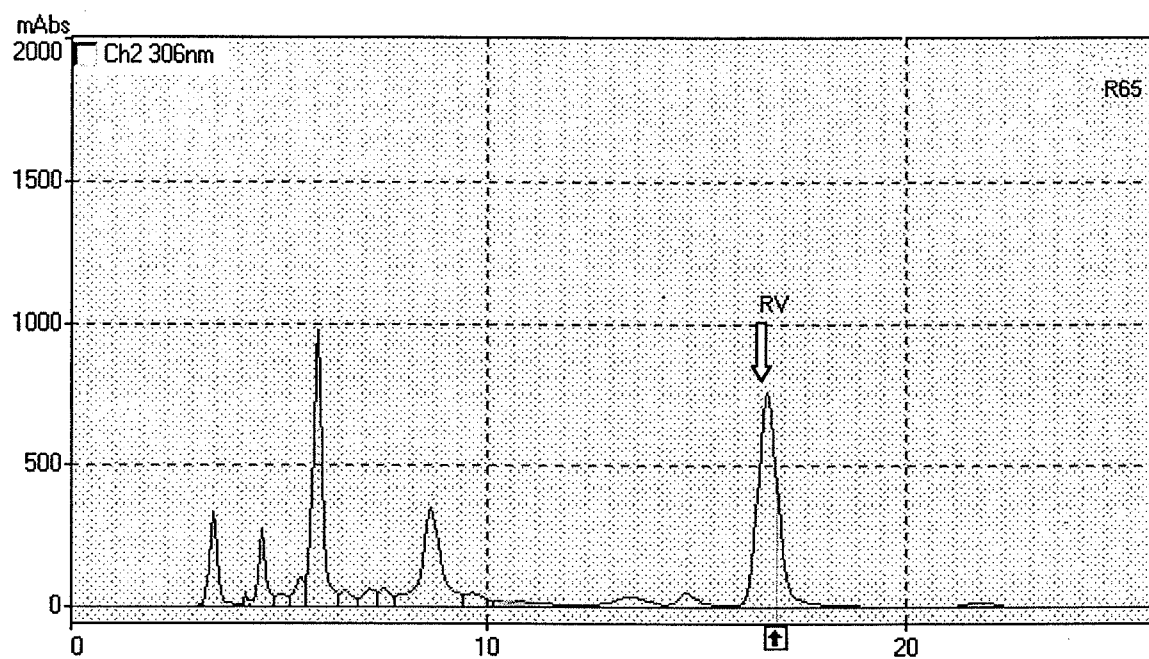


Figure 8E