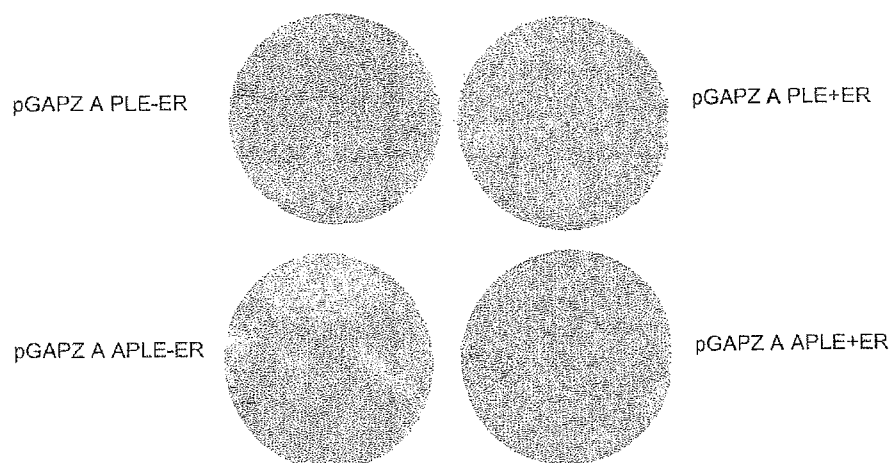


A



B

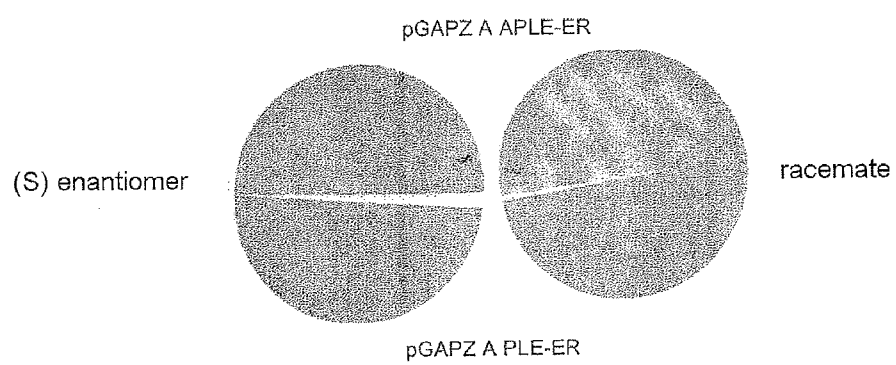


Figure 1

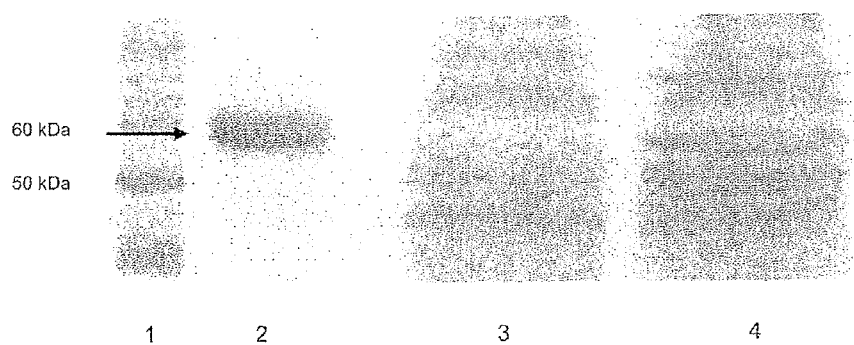


Figure 2

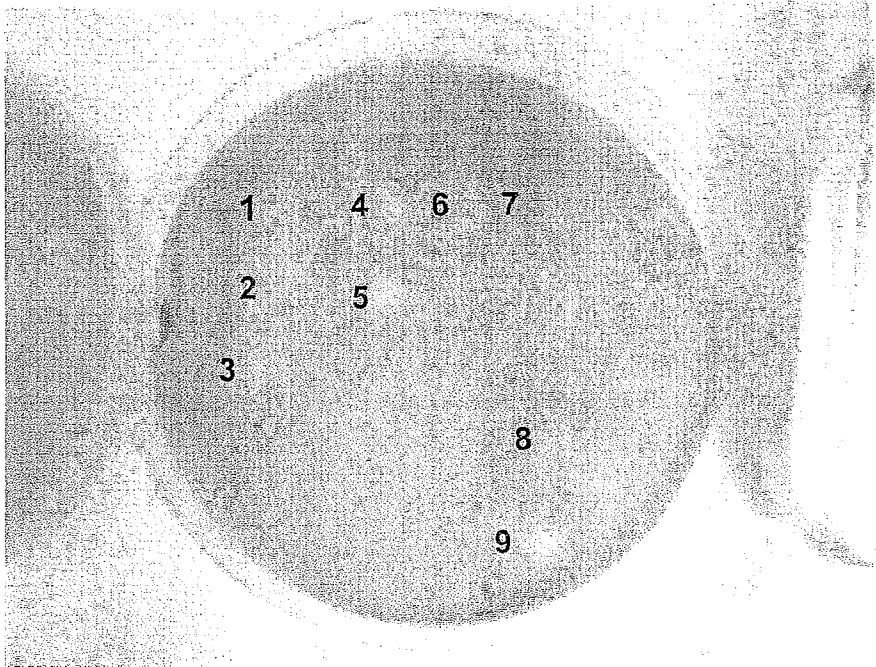


Figure 3

SEQ ID No 1

Protein sequence of rAPLE

GQPASPPVVDTAQGRVLGKYVSLEGLAQPVAVFLGVFFAKPPLGSLRFAPPQPAEPWSFVKNTTSYPPMCCQEPI
 GGQMLSDLFTNRKERLIPEFSEDCLYLNITYTPADLTKRGRLPVMVWIHGGGLVVGASTYDGLALAAHENVVVVA
 IQYRLGIWGGFFSTGDEHSRGNWGHLDQVAALHWVQENIANFGGDPGSVTIFGESAGGESVSVLVLSPLAKNLFHR
 AISESGVAFTAGLVRKDMKAAAKQIAVLGCKTTTSAVFVHCLRQKSEDELLDLTLKMKFFALDLHGDPPRESHPF
 LTTVVDGVLLPKMPPEILAEKDFNTVPYIVGINKQEFGWLLPTMMGFPLSEGKLDQKTATSLWKSYPPIANIPPEE
 LTPVATDKYLGGTDDPVKKDLFLDLMGDVVFGVPSVTVARQHRDAGAPTYMYEFQYRPSFSSDKPKPTVIGDHG
 DEIFSVFGFPLLKGDAPPEEVSLSKTMKFWANFARSGNPNGEGLPHWPMYDQEEGYLQIGVNTQAARKLKGEV
 AFWNDLLSKEAAKKPKIKHAEL

SEQ ID No 2:

Nucleotide sequence of rAPLE

gggcagccag cctcgccgcc tgttgtggac actgcccagg gccgagtcct ggggaagtac
 gtcagcttag aaggcctggc acagccgggt gccgtcttcc tgggagtcct ttttgccaag
 cccctctctg gatccttgag gtttgctccg ccgcagcctg cagaacctat gagcttcgtg
 aagaacacca cctcctaccc tcccatgtgc tgccaagagc caattggggg acagatgctc
 tcagatctat ttaccaacag aaaggagagg ctcatccgg agttttctga agactgtctc
 tacctaaata tttacacccc tgctgacctg acaaagaggg gcagactgcc ggtgatgggtg
 tggatccacg gaggaggtct ggtggtgggc ggggcttcca cctatgatgg actggccctc
 gctgcgcag aaaacgtggg ggtggtggcc atccagtacc gcctgggcat ctggggattc
 ttcagcacag gggacgaaca cagccggggc aactggggtc acttggaaca ggtggccgca
 ctgcactggg tccaggagaa catcgccaac tttggaggcg acccaggctc tgtgaccatc
 tttggagagt cagcaggagg ggaaagtgtc tctgttctgg tgttgtctcc cttggccaag
 aacctcttcc accgggccat ctctgagagt ggcgtggcct tctactgctg cctggtcagg
 aaggacatga aggctgcagc taagcaaat gctgtccttg ctgggtgtaa aaccaccacc
 tcggctgtct ttgttcactg cctgcgccag aagtcggagg acgagctctt ggacttaacg
 ctgaagatga aatttttcgc tcttgatttg catggagacc ccagagagag ccattccctc
 ctgaccactg tgggtgatgg agtgctgctg cccaagatgc ctgaagagat tctggctgaa
 aaggatttca acactgtccc ctacatcgtg ggaatcaaca agcaagagtt tggctggctt
 ctgccaacga tgatgggctt cccctctctt gaaggcaagc tggaccagaa gacggccacg
 tcaactctgt ggaagtccca ccccatcgct aacatccctg aggaactgac tccagtggcc
 actgacaagt atttggggg gacagacgac cccgtcaaaa agaaagacct gttcctggac
 ttgatggggg atgtggtgtt tgggtgtcca tctgtgacgg tggcccgta acacagagat
 gcaggagccc ccacctacat gtatgagttt cagtatcgcc caagcttctc atcggacaag
 aaaccaaga cggatgatcg ggaccacggg gatgagatct tctccgtctt tggttttcca
 ctgttaaaag gcgatgcccc agaagaggag gtcagtctca gcaagacggt gatgaaatc
 tgggccaact ttgctcgag tgggaacccc aatggggagg ggctgcccc tggccgatg
 tacgaccagg aagaagggtta ccttcagatc ggcgtcaaca cccaggcagc caagaggctg
 aaaggtgaag aagtggcctt ctggaacgat ctctgttcca aggaggcagc aaagaagcca
 cccaagataa agcatgctga gctgtga

SEQ ID. No. 3: Primer 1

5'-CAGAATTCATGGCTATCGGGCAGCCAGCCTCGC-3'

SEQ ID No. 4: Primer 2

5'-CCGGAATTCAGCCTCCCCTTCACAGCTCAG -3'

SEQ ID No. 5: EcoRIalpha1

5'-TCTTCGAAGAAATTCACGATGAGATTTCTTCAATTTTACTGC-3'

SEQ ID No. 6: alphaPLE2

5'-GAGGCTGGCTGCCCAGCTTCAGCCTCTCTTTTCTCG-3'

SEQ ID No. 7: PLEalpha1

5'-AGAGAGGCTGAAGCTGGGCAGCCAGCCTCGCCG-3'

SEQ ID No. 8: EcoRIPLE+ER2

5'-ATGGTACCGAATTCTCACAGCTCAGCATGCTTTATCTTG-3'

SEQ ID No. 9: EcoRIPLE2

5'-ATGGTACCGAATTCTCACTTTATCTTGGGTGGCTTCTTTG-3'