*h*ENPP-4 VersaClone cDNA

Catalog Number: RDC2437

Specifications:

Gene:	*h*ENPP4
Accession:	NP_055751
Insert size:	1375bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

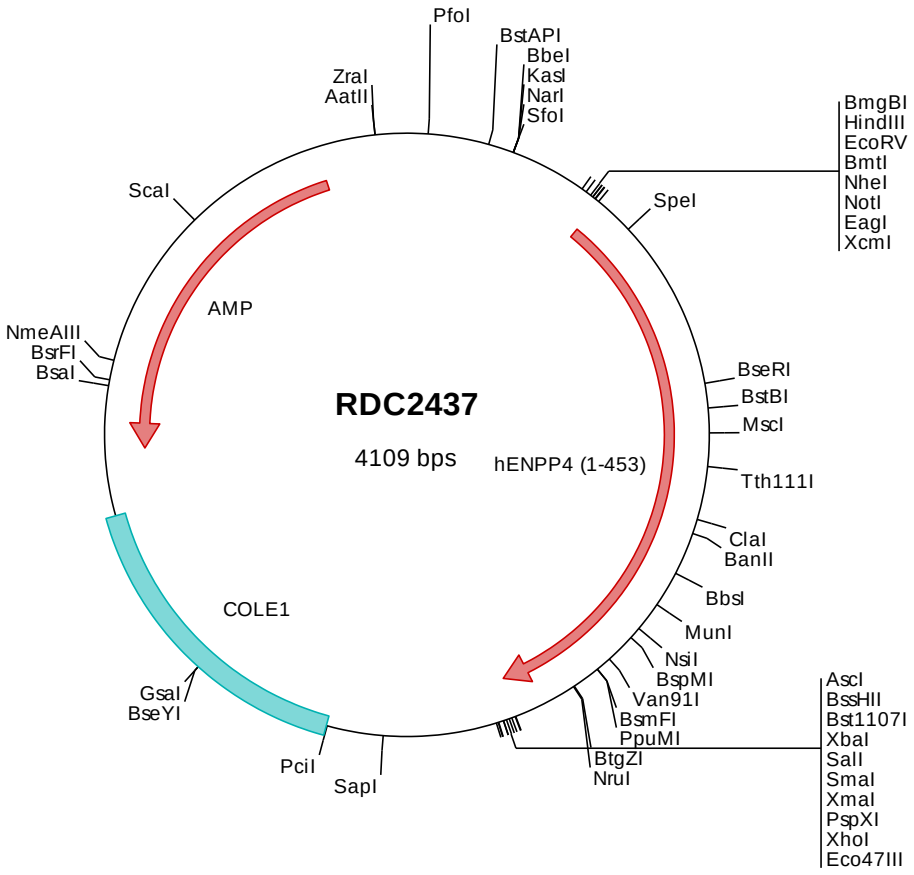
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*h*ENPP-4 cDNA Plasmid

ENPP4 ectonucleotide pyrophosphatase/phosphodiesterase 4 [*Homo sapiens* (human)]

Also known as: NPP4

Summary:
ENPP4 belongs to a group of ecto-enzymes which regulate the availability of extracellular nucleotides. ENPP4 is expressed on the surface of vascular endothelial cells where its activity prolongs platelet aggregation and contributes to thrombus formation. ENPP4 hydrolyzes phosphodiester bonds in nucleotides with a preference for adenine nucleotides. It cleaves the diadenosine compounds Ap3A and Ap4a which are released from the dense granules of thrombin-activated platelets. These reactions generate AMP and ADP from Ap3A cleavage, and AMP and ATP from Ap4A cleavage.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

R&D SYSTEMS
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> RDC2437 Plasmid DNA Sequence

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   1  tcgcgcgttt cggtgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atgaagttat tggtaatact cttgttctct ggacttataa ctggttttag
 501  aagtgactct tcctctagtt tgccacctaa gttactacta gtatcctttg atggcttcag agctgattat ctgaagaact atgaatttcc tcatctccag
 601  aattttatca aagaaggtgt tttggtagag catgttaaaa atgtttttat cacaaaaaca tttccaaacc actacagtat tgtgacaggc ttgtatgaag
 701  aaagccatgg cattgtggct aattccatgt atgatgcagt cacaaagaaa cacttttctg actctaatga caaggatcct ttttggtgga atgaggcagt
 801  acctatttgg gtgaccaatc agcttcagga aaacagatca agtgctgctg ctatgtggcc tggtactgat gtacccattc acgataccat ctcttcctat
 901  tttatgaatt acaactcctc agtgtcattt gaggaaagac taaataatat tactatgtgg ctaaacaatt cgaacccacc agtcaccttt gcaacactat
1001  attgggaaga accagatgca agtggccaca aatacggacc tgaagataaa gaaaacatga gcagagtgtt gaaaaaaata gatgatctta tcggtgactt
1101  agtccaaaga ctcaagatgt tagggctatg ggaaaatctt aatgtgatca ttacaagtga tcatgggatg acccagtgtt ctcaggacag actgataaac
1201  ctggattcct gcatcgatca ttcatactac actcttatag atttgagccc agttgctgca atacttccca aaataaatag aacagaggtt tataacaaac
1301  tgaaaaactg tagccctcat atgaatgttt atctcaaaga agacattcct aacagatttt attaccaaca taatgatcga attcagccca ttattttggt
1401  tgccgatgaa ggctggacaa ttgtgctaaa tgaatcatca caaaaattag gtgaccatgg ttatgataat tctttgccta gtatgcatcc atttctagct
1501  gcccacggac ctgcatttca caaaggctac aagcatagca caattaacat tgtggatatt tatccaatga tgtgccacat cctgggatta aaaccacatc
1601  ccaataatgg gacctttggt catactaagt gcttgttagt tgaccagtgg tgcattaatc tcccagaagc catcgcgatt gttatcggtt cactcttggt
1701  gttaaccatg ctaacatgcc tcataataat catgcagaat agactttctg tacctcgtcc attttctcga cttcagctac aagaagatga tgatgatcct
1801  ttaattgggt aaaggcgcgc cagtatactc tagagtcgac acccggggaa ttcctcgagc gctcgtctct agcttggcgt aatcatggtc atagctgttt
1901  cctgtgtgaa attgttatcc gctcacaatt ccacacaaca tacgagccgg aagcataaag tgtaaagcct ggggtgccta atgagtgagc taactcacat
2001  taattgcgtt gcgctcactg cccgctttcc agtcgggaaa cctgtcgtgc cagctgcatt aatgaatcgg ccaacgcgcg gggagaggcg gtttgcgtat
2101  tgggcgctct tccgcttcct cgctcactga ctcgctgcgc tcggtcgttc ggctgcggcg agcggtatca gctcactcaa aggcggtaat acggttatcc
2201  acagaatcag gggataacgc aggaaagaac atgtgagcaa aaggccagca aaaggccagg aaccgtaaaa aggccgcgtt gctggcgttt ttccataggc
2301  tccgcccccc tgacgagcat cacaaaaatc gacgctcaag tcagaggtgg cgaaacccga caggactata aagataccag gcgtttcccc ctggaagctc
2401  cctcgtgcgc tctcctgttc cgaccctgcc gcttaccgga tacctgtccg cctttctccc ttcgggaagc gtggcgcttt ctcaatgctc acgctgtagg
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2601  agtccaaccc ggtaagacac gacttatcgc cactggcagc agccactggt aacaggatta gcagagcgag gtatgtaggc ggtgctacag agttcttgaa
2701  gtggtggcct aactacggct acactagaag gacagtattt ggtatctgcg ctctgctgaa gccagttacc ttcggaaaaa gagttggtag ctcttgatcc
2801  ggcaaacaaa ccaccgctgg tagcggtggt ttttttgttt gcaagcagca gattacgcgc agaaaaaaag gatctcaaga agatcctttg atcttttcta
2901  cggggtctga cgctcagtgg aacgaaaact cacgttaagg gattttggtc atgagattat caaaaaggat cttcacctag atccttttaa attaaaaatg
3001  aagttttaaa tcaatctaaa gtatatatga gtaaacttgg tctgacagtt accaatgctt aatcagtgag gcacctatct cagcgatctg tctatttcgt
3101  tcatccatag ttgcctgact ccccgtcgtg tagataacta cgatacggga gggcttacca tctggcccca gtgctgcaat gataccgcga gacccacgct
3201  caccggctcc agatttatca gcaataaacc agccagccgg aagggccgag cgcagaagtg gtcctgcaac tttatccgcc tccatccagt ctattaattg
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3501  gaagtaagtt ggccgcagtg ttatcactca tggttatggc agcactgcat aattctctta ctgtcatgcc atccgtaaga tgcttttctg tgactggtga
3601  gtactcaacc aagtcattct gagaatagtg tatgcggcga ccgagttgct cttgcccggc gtcaatacgg gataataccg cgccacatag cagaacttta
3701  aaagtgctca tcattggaaa acgttcttcg gggcgaaaac tctcaaggat cttaccgctg ttgagatcca gttcgatgta acccactcgt gcacccaact
3801  gatcttcagc atcttttact ttcaccagcg tttctgggtg agcaaaaaca ggaaggcaaa atgccgcaaa aaagggaata agggcgacac ggaaatgttg
3901  aatactcata ctcttccttt ttcaatatta ttgaagcatt tatcagggtt attgtctcat gagcggatac atatttgaat gtatttagaa aaataaacaa
4001  atagggttc cgcgcacatt tccccgaaaa gtgccacctg acgtctaaga aaccattatt atcatgacat taacctataa aaataggcgt atcacgaggc
4101  cctttcgtc
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> RDC2437 Translated Insert Sequence

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 201  enmsrvlkki ddligdlvqr lkmlglwenl nviitsdhgm tqcsqdrlin ldscidhsyy tlidlspvaa ilpkinrtev ynklkncsph mnvylkedip
 301  nrfyyqhndr iqpiilvade gwtivlness qklgdhgydn slpsmhpfla ahgpafhkgy khstinivdi ypmmchilgl kphpnngtfg htkcllvdqw
 401  cinlpeaiai vigsllvltm ltcliiimqn rlsvprpfsr lqlqeddddp lig
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