

Product datasheet for **MR207289**

Enpp4 (NM_199016) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Enpp4 (NM_199016) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Enpp4
Synonyms:	4933413N07Rik; AA986363; A1195364; E-NPP 4; Gm90; mKIAA0879
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207289 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTCAATATGAAGATATTAGTAATTCCTTTGTTTTGGGACTTGCTACTGGCTATAAAGGGAAGCTCTT
 CCGATAGCTCAGCACCTCGGTTACTTCTGGTATCCTTTGACGGCTTAGAGCTGACTACCTGAAGAGCTA
 TGACCTTCCTCACCTCCAGAAGTTTATCAAAGAAGGTGCTTGGTGAACATGTTAAAAATGTTTTTATC
 ACCAAAAGCTTTTCCAAACCACTACAGCATTGTGACGGGCTTATATGAGGAAAACCATGGCATCGTGGCCA
 ACTCCATGTATGACAGTGTACAAAAGAACATTTTCTGAATCCAATGATAAGGATCCGTTTTGGTGGAA
 TGGAGCGGAGCCTATTTGGGTGACCAATCAGCTTCAGGAAAACAGGTCAAGCGCTGCCGCTATGTGGCT
 GGCCTGATGTGCCATTACAATATCACAGTTCCTATTTTATGAACTATAGCAGCTCCGTGTCCTTTA
 AGGAAAGACTGGTAACGTTACCACATGGCTCAGCAGTCCAACCCACCAGTCACTTTGCAGCGCTCTA
 TTGGGAAGAACCAGATGTAAGCGGCCACAAGTATGGGCTGAAGATAAAGAAAACATGCGCCGGGATTG
 AAAGAAGTAGATGACCTATTGGTGATATTGTCCTAAAGCTCAAGGTGTTAGGACTATGGGACAGCCTTA
 ATGTGATCATTACAAGCGATCATGGGATGGCTCAGTGTCTAAGAACAGACTGATAGATTTGGATTCCTG
 CATCGACCGTTCAAACACTACAGTGTATAGACTTGACCCCTGTGGCTGCGATTCTTCCAAAATAAATGTA
 ACAGAGGTTTATGACAACTGAAACGCTGTAACCTCACATGAATGTTTATCTCAAAGAAGCTATCCCTA
 ACAGATTTTACTACCAACACAGCAGTCAATTCAGCCATTATTTTGGTTGCTGAGGAAGGCTGGACAAT
 CACCCTGAACAAGTCATCATTTAAATTAGGTGACCATGGCTATGATAATCCCTGCCTAGTATGCACCCG
 TTTCTTGTGCCACGGACCTGCCTTTAGAAAAGGTTACAGGCAGAGCACCATCAACTGTGGATATTT
 ATCCAATGATGTGCCACATCCTGGGACTAAAACACATCCAATAATGGAACCTCAGTCATACCAAGTG
 CTGTTGGTGGACAGTGGTGCATTAATCTCCAGAACCCATTGGAATTGTTGTTAGTGCACATATTGGTA
 TTAACCATGCTAACAGGCCTCATGATATTCATGCGGAGCAGAGCATCCACATCCCGTCCATTCTCCGCT
 TTCAGCTGCAGGAAGATGACGATGACCCTTAATTGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207289 protein sequence
 Red=Cloning site Green=Tags(s)

MFNMKILVIPLFWGLVTGYKGNSSDSSAPRLLLVSFDGFRADYDKSYDLPHLQNFKEGVLVEHVKNVFI
 TKTFPNHYSIVTGLYEENHGIVANSYDYSVTKKHFSESNDKDPFWWNGAEPWVTNQLQENRSSAAAMWP
 GTDVPIHNITASYFMNYSSVSFKERLGNVTTWLSNPPVTF AALYWEPEPDVSGHKYGPEDKENMRRVL
 KEVDDLIGDIVLKLKVLGLWDSLNVIIITSDHGMAQCCKNRLIDLDCIDRSNYSVIDLTPVAAILPKINV
 TEVYDKLKRCNPHMNVYLKEAIPNRFYQHSRIQPIILVAEEGWTITLNKSSFGLGDHGYDNSLPSMHP
 FLAAHGPAFRKGYRQSTINTVDIYPMCHILGLKPHPNNGTLSHTKCLLVQWCINLPEAIGIVVSALLY
 LTMLTGLMIFMRSRASTRPFSRLQLQEDDDPLID

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_199016

ORF Size: 1371 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_199016.2](#), [NP_950181.2](#)
RefSeq Size: 4558 bp

RefSeq ORF: 1371 bp

Locus ID: 224794

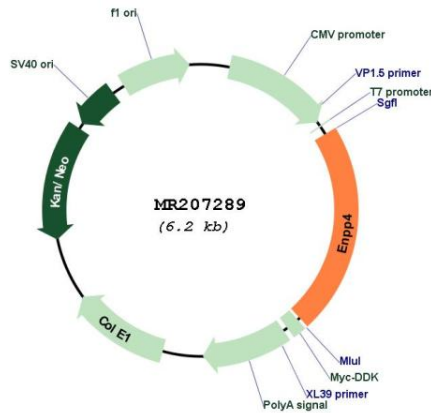
UniProt ID: [Q8BTJ4](#)

Cytogenetics: 17 B3

MW: 51.6 kDa

Gene Summary: Hydrolyzes extracellular Ap3A into AMP and ADP, and Ap4A into AMP and ATP. Ap3A and Ap4A are diadenosine polyphosphates thought to induce proliferation of vascular smooth muscle cells. Acts as a procoagulant, mediating platelet aggregation at the site of nascent thrombus via release of ADP from Ap3A and activation of ADP receptors (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207289