

Product datasheet for **MG207289**

Enpp4 (NM_199016) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Enpp4 (NM_199016) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Enpp4
Synonyms:	4933413N07Rik; AA986363; AI195364; E-NPP 4; Gm90; mKIAA0879
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207289 representing NM_199016
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTCAATATGAAGATATTAGTAATTCCTTTGTTTTGGGACTTGTCCTACTGGCTATAAAGGGAAGCTCTT
 CCGATAGCTCAGCACCTCGGTTACTTCTGGTATCCTTTGACGGCTTAGAGCTGACTACCTGAAGAGCTA
 TGACCTTCCTCACCTCCAGAAGTTTATCAAAGAAGGTGCTTGGTGAACATGTTAAAAATGTTTTTATC
 ACCAAAAGCTTTTCCAAACCACTACAGCATTGTGACGGGCTTATATGAGGAAAACCATGGCATCGTGGCCA
 ACTCCATGTATGACAGTGTACAAAAGAACATTTTCTGAATCCAATGATAAGGATCCGTTTTGGTGGAA
 TGGAGCGGAGCCTATTTGGGTGACCAATCAGCTTCAGGAAAACAGGTCAAGCGCTGCCGCTATGTGGCT
 GGCCTGATGTGCCATTACAATATCACAGTTCCTATTTTATGAACTATAGCAGCTCCGTGTCCTTTA
 AGGAAAGACTGGGTAACGTTACCACATGGCTCAGCAGTCCAACCCACCAGTACCTTTGCAGCGCTCTA
 TTGGGAAGAACCAGATGTAAGCGGCCACAAGTATGGGCTGAAGATAAAGAAAACATGCGCCGGGATTG
 AAAGAAGTAGATGACCTATTGGTGATATTGTCCTAAAGCTCAAGGTGTTAGGACTATGGGACAGCCTTA
 ATGTGATCATTACAAGCGATCATGGGATGGCTCAGTGTCTAAGAACAGACTGATAGATTTGGATTCCTG
 CATCGACCGTTCAAACACTACAGTGTATAGACTTGACCCCTGTGGCTGCGATTCTTCCAAAATAAATGTA
 ACAGAGGTTTATGACAACTGAAACGCTGTAACCCCTCACATGAATGTTTATCTCAAAGAAGCTATCCCTA
 ACAGATTTTACTACCAACACAGCAGTCGAATTCAGCCATTATTTTGGTGTGAGGAAGGCTGGACAAT
 CACCCTGAACAAGTCATCATTTAAATTAGGTGACCATGGCTATGATAATCCCTGCCTAGTATGCACCCG
 TTTCTTGTGCCACGGACCTGCCTTTAGAAAAGGTTACAGGCAGAGCACCATCAACACTGTGGATATT
 ATCCAATGATGTGCCACATCCTGGGACTAAAACACATCCAATAATGGAACCCATGATCAACCAAGTG
 CTGTGGTGGACCAAGTGGTGCATTAATCTCCCAGAAGCCATTGGAATTGTTGTTAGTGCCTATTGGTA
 TTAACCATGCTAACAGGCTCATGATATTCATGCGGAGCAGAGCATCCACATCCCGTCCATTCTCCGCT
 TTCAGCTGCAGGAAGATGACGATGACCCCTTAATTGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207289 representing NM_199016
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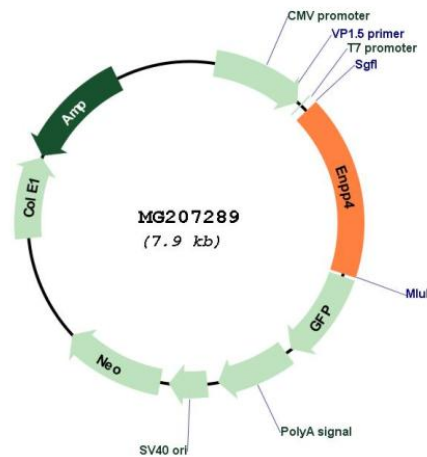
MFNMKILVIPLFWGLVTGYKGNSSDSSAPRLLLVSFDGFRADYDKSYDLPHLQNFKEGVLVEHVKNVFI
 TKTFPNHYSIVTGLYEENHGIVANSYDVSVKKHFSESNDKDPFWWNGAEPWVTNQLQENRSSAAAMWP
 GTDVPIHNITASYFMNYSSSVFKERLGNVTTWLSNPPVTF AALYWEEDVSGHKYGPEDKENMRRVL
 KEVDDLIGDIVLKLKVLGLWDSLNVIIITSDHGMAQCCKNRLIDLDCIDRSNYSVIDLTPVAAILPKINV
 TEVYDKLKRCNPHMNVYLKEAIPNRFYQHSRIQPIILVAEEGWTITLNKSSFGLGDHGYDNSLPSMHP
 FLAAHGPAFRKGYRQSTINTVDIYPMCHILGLKPHPNNGTLSHTKCLLDVQWCINLPEAIGIVVSALLY
 LMLTGLMIFMRSRASTRPFSRLQLQEDDDPLID

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_199016

ORF Size: 1368 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:	<ol style="list-style-type: none">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:	<u>NM_199016.2</u> , <u>NP_950181.2</u>
RefSeq Size:	4558 bp
RefSeq ORF:	1371 bp
Locus ID:	224794
UniProt ID:	<u>Q8BTJ4</u>
Cytogenetics:	17 B3
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]