

Product datasheet for **MG217541**

Enpp3 (NM_134005) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Enpp3 (NM_134005) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Enpp3
Synonyms:	A1876438; CD203c
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG217541 representing NM_134005
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATTCAGGCTAGCATTAGCCACAGAGGAGCCATTAAGAAAGACAGTCTCAAGAAATACAAGATCC
 TTTGTGTGGTTCTTCTTCTTTGTTGGTATTGTATCGCTTGGATTGGGGCTGGGACTGGGACTCAGGAA
 ACCTGAAGAACAAGGAGCTGCAGGAAAAAATGCTTTGACTCATCGCACAGAGGACTGGAGGGCTGCCGC
 TGTGACTCGGGATGCACAGGACGAGGAGACTGCTGCTGGGACTTTGAAGATACCTGTGTAAATCAACTC
 AAATATGGACGTGCAATTTATCCGTTGTGGGAGAACAGACTGGAGACAGCCCTCTGTTCTGTGCGGA
 TGACTGTCTACAGAGGAAGGACTGCTGTGCTGACTACAAGACTGTGTGCCAAGGGCAAAGCCATGGGTG
 ACAGAAGCCTGTGCCTCATCCAGGAGCCCAAGTGTCCACCAGGGTTTGACTGCCACCAGTTATCTTGT
 TCTCCATGGACGGTTTTAGAGCTGAGTATTTACAACATGGAGTACCCTTTTGCCTAATATCAACAACT
 GAAAACATGTGGAATCCATTCTAAATATATGAGAGCTATGTATCCCAACAAAACCTTCCCAAATCATTAT
 ACCATTGTCACGGTTTTGTATCCGGAGTACACGGCATATTGACAACAACATGTATGACGTGCACCTCA
 ACAAGAATTTTTCCCTTTCTTCACTGGAGAAAAGCAATCCCGCCTGGTGGAGCGGGCAGCCGATTTGGCT
 AACGGCAATGTATCAAGTTTAAAAGCTGCTTGTACTACTGGCCGGGATCAGATGTGGCTGTCAATGGC
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 AGGGCATTTCAGTGGACCACTGCTGCTGGAGTAATTAAGCCTTGCAGTCAGTTGACAAATGCCTTTGGA
 ATGTTGATGGAGGCTGAAACAGAGGAATTTACACAACACTGTGCAATATAATCGTTCTGGCTGATCATG
 GAATGGACCAGACCTCCTGTGATAGAGTGAATACATGACAGTATTTTTCTAAAAATAACTTCTATAT
 GTATCAAGGACCTGCTCCTCGAATCAGGACTCGTAATATACCTCAGGACTTCTTTACATTTAATTCGAA
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 ATGGAGGCAATCTTTTTGGCACATGGACCCAGCTTTATAGAGAAGACTGTTATTGAACCATTTGAAAATA
 TTGAAGTCTATAATCTACTGTGTGATCTTCTGCACATTGAACCAGCACCAAAACAACGGTACTCATGGCAG
 TCTGAATCATCTTCTGAAGACACCGTTTTACAAGCCATCATGCAGGAGAGTTGTCAACGCCTGCTGAC
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 AAAATGTTCTTCTATTTAGCAGACAAGAATATCACCCATGGCTTCTCTATCCTGCAATCAAAGGAACT
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 GGGACTACTTCCATGAGGTTCTTCTTATAAAAATGCTATAGAAAGAAAATGGACTGAATGTGGTTAGTGG
 ACCCATCTTTGATTATAATTATGATGGCATTGATGCTCCGGATGAAATCACACAATATGTAGCTGGC
 ACTGATGTCCCTATCCCAACACACTACTTTGTGGTGTGACAAGTTGTAAGACCAAAACCACACACCCG
 ACAGCTGCCCTGGTGGCTGGATGCTCCTGCCCTCATCGTCCCTACCGGCCACCAACATAGAAAGCTG
 TTCTGAAAACAAGACCGAGGACCTTTGGGTTGAAGAGAGGTTCCAAGCACACGCCCGGGTCCGAGAT
 GTGGAGCTCCTCACTGGCCTTACTTTTTATCAGGAGAAAGCACAGCCCGTCTCTCAGATTTTGAACATA
 AGACGTATCTGCCACGTTTGAACATTATT

ACGGTACGGCGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG217541 representing NM_134005
 Red=Cloning site Green=Tags(s)

MDSRLALATEEPIKKDSLKYYKILCVVLLALLVIVSLGLGLGLRKPEEQGSCRKKCFDSSHRGLEGCR
 CDSGCTGRGDCCWDFEDTCVKSTQIWTGNLFCRGENRLETALCSCADDCLQRKDCCADYKTVCGESPWV
 TEACASSQEPQCPPGFDLPPVILFSDMGFRAEYLQWSTLLPNINKLKTGCIHSKYMRAMYPTKTFPNHY
 TIVTGLYPESHGIIDNNMYDVHLNKNFSLSSVEKSNPAWWSGQPIWLTAMYQGLKAACYWPGSDVAVNG
 SFPTIYRNYNSVPYERRITTLQLWLDLPKADRPSTFYTIYVEEPDSAGHSSGPVSAGVIKALQSVDNAFG
 MLMEGLKQRNLHNCVNIIVLADHGMDQTSRDRVEYMTDYFPKINFYMYQGPAPRIRTRNIPQDFFTFNSE
 EIVRNLSRCKPDQHFKPYLTPDLPKRLHYAKNVRIDKAHLMVDRQWLAFRSKGSSNCGGGTHGYNNEFKS
 MEAIFLAHGSPFIEKTVIEPFENIEVYNLLCDLLHIEPAPNNGTHGSLNHLLKTPFYKPSHAGELSTPAD
 CGFTTPLPTDPLDCSPALQNTPLGLEEQANQRNLSEGEVAATVKANLPFGRPRVMQKNGDHCLLYHRDY
 ISGYGKAMKMPMWSYTVLPGDTSSTPPTVPDCLRADVRVAPSESQKCSFYLDKNITHGFLYPAIKGT
 NESRYDALITSNLVPMYKEFKMWDYFHEVLLIKYAIERNGLNVVSGPIFDYNYDGHFDAPDEITQYVAG
 TDVPIPTHYFVVLTSCKDQHTHPDSCPGWLDVLPFIVPHRPTNIESCSENKTEDLWVEERFQAHAARVRD
 VELLTGLDFYQEKAQPVSQLQLKTYLPTFETII

TRTRPLE - GFP Tag - V

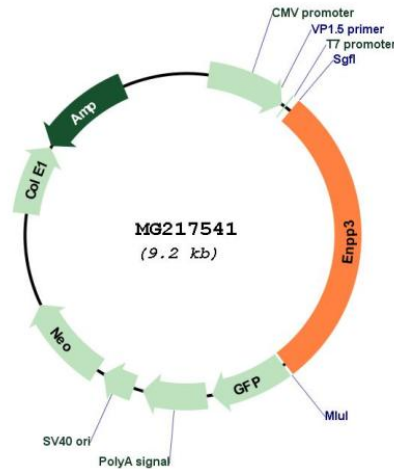
Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:


ACCN: NM_134005

ORF Size: 2622 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_134005.2](#), [NP_598766.2](#)

RefSeq Size: 2815 bp

RefSeq ORF: 2625 bp

Locus ID: 209558

UniProt ID: [Q6DYE8](#)

Cytogenetics: 10 A4

Gene Summary: Hydrolase that metabolizes extracellular nucleotides, including ATP, GTP, UTP and CTP (By similarity). Limits mast cell and basophil responses during inflammation and during the chronic phases of allergic responses by eliminating the extracellular ATP that functions as signaling molecule and activates basophils and mast cells and induces the release of inflammatory cytokines (PubMed:25692702). Metabolizes extracellular ATP in the lumen of the small intestine, and thereby prevents ATP-induced apoptosis of intestinal plasmacytoid dendritic cells (PubMed:28225814). Has also alkaline phosphodiesterase activity (By similarity).[UniProtKB/Swiss-Prot Function]