

Product datasheet for **MR217541**

Enpp3 (NM_134005) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Enpp3 (NM_134005) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Enpp3
Synonyms:	AI876438; CD203c
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR217541 representing NM_134005
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGATTCCAGGCTAGCATTAGCCACAGAGGAGCCCATTAAGAAAGACAGTCTCAAGAAATACAAGATCC
 TTTGTGTGGTTCTTCTTGTCTTTGTTGGTGATTGTATCGCTTGGATTGGGGCTGGGACTGGGACTCAGGAA
 ACCTGAAGAACAAGGAGCTGCAGGAAAAAATGCTTTGACTCATCGCACAGAGGACTGGAGGGCTGCCGC
 TGTGACTCGGGATGCACAGGACGAGGAGACTGCTGCTGGGACTTTGAAGATACCTGTGTGAAATCAACTC
 AAATATGGACGTGCAATTTATCCGTTGTGGGAGAACAGACTGGAGACAGCCCTCTGTTCTGTGCGGA
 TGACTGTCTACAGAGGAAGGACTGCTGTGCTGACTACAAGACTGTGTGCCAAGGCGAAAGCCCATGGGTG
 ACAGAAGCCTGTGCTCATCCAGGAGCCCCAGTGTCCACCAGGGTTTGACCTGCCACCAGTTATCTTGT
 TCTCCATGGACGGTTTTAGAGCTGAGTATTACAAACATGGAGTACCCTTTTGCCTAATATCAACAACT
 GAAAACATGTGGAATCCATTCTAAATATATGAGAGCTATGTATCCACCAAAACCTTCCCAAATCATTAT
 ACCATTGTACGGGTTTGTATCCGGAGTCACACGGCATATTGACAACAACATGTATGACGTGCACCTCA
 ACAAGAATTTTTCCCTTTCTTCAGTGGAGAAAAGCAATCCCGCCTGGTGGAGCGGGCAGCCGATTGGCT
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 GAATGGACCACTCCTGTGATAGAGTGAATACATGACAGATTATTTTCCTAAATAAACTTCTATAT
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 TTGAAGTCTATAATCTACTGTGTGATCTTCTGCACATTGAACCAGCACCAAAACACGGTACTCATGGCAG
 TCTGAATCATCTTCTGAAGACACCGTTTTACAAGCCATCATGCAGGAGAGTTGTCAACGCCTGCTGAC
 TGTGGTTTTACTACTCCCTGCCTACAGACCCACTAGACTGCTCATGCCCTGCACTACAGAATACGCCTG
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 TTTGCCATTTGGGAGGCCAGGGTGATGCAGAAGAACGGAGACCACTGTCTCCTTTACCACAGGGACTAC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR217541 representing NM_134005
Red=Cloning site Green=Tags(s)

MDSRLALATEEPIKKDSLKKYKILCVVLLALLVIVSLGLGLGLRKPEEQGSCRKKCFDSSHRGLEGR
CDSGCTGRGDCCWDFEDTCVKSTQIWTNLFRCGENRLETALCSCADDCLQRKCCADYKTVQGESPWV
TEACASSQEPQCPPGFDLPVILFSMDGFRAEYLQTWSTLLPNINKLKTGCIHSKYMRAMYPTKTFPNHY
TIVTGLYPESHGIIDNNMYDVHLNKNFSLSSVEKSNPAWWSGQPIWLTAMYQGLKAACYWPGSDVAVNG
SFPTIYRNYSNSVPYERRITTLQWLDLPKADRPSTFYTYVEEPDSAGHSSGPVSAGVIKALQSVDNAFG
MLMEGLKQRNLHNCVNIIVLADHGMDQTSCDRVEYMTDYFPKINFYMQGPAPRIRTRNIPQDFFTFNSE
EIVRNLSRKPQDHFQPYLTPDLPKRLHYAKNVRIDKAHLMVDRQWLAFRSKGSSNCGGGTHGYNNEFKS
MEAIFLAHGSPFIEKTVIEPFENIEVYNLLCDLLHIEPAPNNGTHGSLNHLLKTPFYKPSHAGELSTPAD
CGFTTPLPTDPLDCSPALQNTPGLEEQANQRLNLSEGEVAATVKANLPFGRPRVMQKNGDHCLLYHRDY
ISGYGKAMKMPMWSSYTLKPGDTSSLPTVPDCLRADVRVAPSESQKCSFYLDKNITHGFLYPAIKGT
NESRYDALITSNLVPMYKEFKMWDYFHEVLLIKYAIERNGLNVVSGPIFDYNYDGHFDAPDEITQYVAG
TDVPIPTHYFVVLTSCKDQTHTPDSCPGWLDVLPFIVPHRPTNIESCSENKTEDLWVEERFQAHAARVRD
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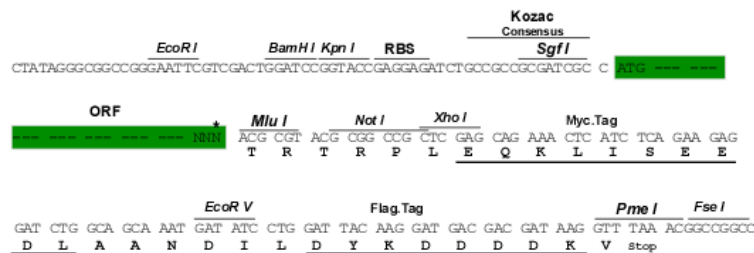
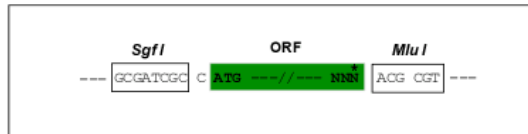
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9003_d11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_134005.2 , NP_598766.2
RefSeq Size:	2815 bp
RefSeq ORF:	2625 bp
Locus ID:	209558
UniProt ID:	Q6DYE8
Cytogenetics:	10 A4
MW:	99.1 kDa
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]

