

## Product datasheet for **MC229107**

### Enpp2 (NM\_001285994) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Enpp2 (NM_001285994) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Enpp2
Synonyms:	AT; ATX; Auto; E-NPP 2; lysoPLD; N; Npps2; Pd; PD-; PD-1alpha; Pdnp2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC229107 representing NM\_001285994  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCAAGACAAGGCTGTTTCGGGTCATACCAGGTAATATCCTTGTTCACTTTTGGCATCGGCGTCAATC  
 TCTGCTTAGGATTCACAGCAAGTCAATTAAGAGGGCCGAATGGGATGAAGGACCTCCACAGTGTATC  
 TGAATCTCCATGGACCAACACATCTGGATCCTGCAAAGGTAGATGCTTTGAGCTTCAAGAGTTGGACCT  
 CCTGACTGTCGGTGTGACAACCTATGTAAGAGCTACAGCAGCTGCTGCCATGATTTTGTAGACTCTGTT  
 TGAACACAGCTCGAGGCTGGGAGTGCACCAAGACAGATGTGGGGAAGTACGAAATGAGGAAATGCCTG  
 TCACTGCTCAGAAGACTGCTTGTCCCGGGGAGACTGCTGTACCACTACCAAGTGGTCTGCAAAGGAGAA  
 TCACACTGGGTAGATGATGACTGTGAAGAAATAAGAGTCCCCGAATGCCCTGCAGGGTTTGTCCGCCCTC  
 CGTTAATCATCTTCTGTGGATGGATTCCGTGCATCGTACATGAAGAAAGGCAGCAAGGTTATGCCCAA  
 CATTGAGAAACTCGGGTCTGTGGCACCATGCTCCCTACATGAGGCCTGTGTACCCTACAAAACCTTC  
 CCTAATCTGTATACGCTGGCCACTGGTTTATATCCAGAATCCCATGGAATCGTTGCAATCAATGTATG  
 ACCCTGTCTTTGATGCTACTTTCCATCTTCGAGGGCGAGAGAAGTTTAAACCATAGATGGTGGGGAGGCCA  
 ACCGCTATGGATTACAGCCACCAAGCAAGGGGTGAGAGCCGGGACATTCTTTGGTCTGTGAGCATCCCT  
 CACGAGCGGAGAAATCCTAACTATCCTTCAGTGGCTTTCCCTGCCAGACAATGAGAGGCCCTCAGTTTATG  
 CCTTCTACTCCGAGCAGCTGATTTTCTGGACACAAGTACGGCCCTTTTGGCCCTGAGATGACAAATCC  
 TCTGAGGGAGATTGACAAGACCGTGGGGCAGTTAATGGACGGACTGAAACAACCTCAAGCTGCACCGTTGT  
 GTGAATGTTATCTTTGTGGAGACCATGGAATGGAAGACGTGACATGTGACAGAAGTTCGTTCTTGAGCA  
 ACTACTGACTAACGTGGATGATATTACTTTAGTACCTGGAACCTAGGAAGAATTCGACCCAAGATTCC  
 CAATAATCTTAAATATGACCCTAAAGCCATTATTGCTAACCTCACGTGTAAAAAACAGATCAGCACTTT  
 AAGCCTTACATGAAACAGCACCTTCCAAACGTTTGCATATGCCAACAAATCGGAGAATCGAGGATCTCC  
 ATTTATTGGTGAACGCAGATGGCATGTTGCAAGGAAACCTTTGGACGTTTATAAGAAGCCGTCAGGAAA  
 ATGTTTTTCCAGGGTGACCACGGCTTTGATAACAAGGTCAATAGCATGCAGACTGTTTTGTAGGTTAT  
 GGCCCAACTTTTAAAGTACAGGACTAAAGTGCCTCCATTTGAAAACATTGAACTTTATAATGTTATGTGCG  
 ATCTCCTAGGCTTGAAGCCAGCTCCAATAATGGAACACATGGAAGTTTGAATCACCTGCTACGCACAAA  
 TACCTTTAGGCCAACCTACCAGAGGAAGTCAGCAGACCCAATTACCCAGGGATTATGTACCTTCAGTCT  
 GATTTTGAACCTGGGCTGCACCTGTGATGATAAGGTAGAGCCAAAGAACAATTTGAAGAATAAATAAAC  
 GCCTTCATACCAAGGATCTACAGAAGCTGAAACCGGAAAATTCAGAGGCAGCAACATGAAAACAAGAA  
 AAGCCTTAAATGGAATGTTGAGCCTAGAAAAGAGAGACATCTCCTGTATGGACGACCTGCAGTGCTTTAT  
 CGGACTAGCTATGATATCTTATACCATACGGACTTTGAAAGTGGTTACAGTGAATATTCTTAATGCCTC  
 TCTGGACTTCTTATACCATTTCTAAGCAGGCTGAGGTCTCTAGCATCCCAGAGCACCTGACCAACTGTGT  
 TCGCCCTGATGTCGGTGTATCTCCTGGATTCACTCAGAAGTGTAGCCTATAAAAATGATAAACAGATG  
 TCCTATGGATTCCTTTTCTCCCTATCTGAGCTTTCCCGAAGCGAAATATGATGCATTCTTGTAA  
 CCAACATGGTTCCAATGTACCTGCCTTCAAACGTTTGGACTATTTCCAAAGGGTCTTGGTGAAGAA  
 ATATGCGTCAGAAAGGAATGGGGTCAACGTAATAAGTGGACCGATCTTTGACTACAATTACAATGGCTTA  
 CGTGACATTGAGGATGAAATTAACAGTATGTGGAAGGCAGCTCTATTCTGTCCCTACCCACTACTACA  
 GCATCATCACCAGCTGCCTGGACTTCACTCAGCCTGCAGACAAGTGTGATGGTCTCTCTGTGTCTTC  
 TTTTCATCTTCTCACCGACCTGACAAATGATGAGAGCTGTAATAGTTCCGAGGATGAGTCGAAGTGGGTA  
 GAGGAACTCATGAAGATGCACACAGCTCGGGTGGGGACATCGAGCATCTCACCGGTTTGGATTTCTACC  
 GGAAGACTAGCCGTAGCTATTCGAAATCTGACCCTCAAGACATACCTGCATACATATGAGAGCGAGAT  
**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja3315\\_h08.zip](https://cdn.origene.com/chromatograms/ja3315_h08.zip)

**Restriction Sites:** SgfI-MluI

<b>ACCN:</b>	NM_001285994
<b>Insert Size:</b>	2664 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001285994.1</a></u> , <u><a href="#">NP_001272923.1</a></u>
<b>RefSeq Size:</b>	3536 bp
<b>RefSeq ORF:</b>	2664 bp
<b>Locus ID:</b>	18606
<b>UniProt ID:</b>	<u><a href="#">Q9R1E6</a></u>
<b>Cytogenetics:</b>	15 D1
<b>Gene Summary:</b>	<p>This gene encodes a member of the phosphodiesterase and nucleotide pyrophosphatase family of bifunctional enzymes that hydrolyze phosphodiester bonds of various nucleotides. The encoded protein undergoes proteolytic processing to generate a mature protein with lysophospholipase D activity, catalyzing the cleavage of the choline group from lysophosphatidylcholine to produce lysophosphatidic acid. This gene is expressed in numerous tissues and participates in neural development, obesity, inflammation and oncogenesis. A complete lack of the encoded protein in mice results in aberrant vascular and neuronal development leading to embryonic lethality. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing to generate the mature protein. [provided by RefSeq, Sep 2015]</p> <p>Transcript Variant: This variant (3, also known as gamma) lacks an in-frame exon and contains an alternate in-frame exon in the central coding region, compared to variant 1. The encoded isoform (3) is shorter, compared to isoform 1. This isoform (3) may undergo proteolytic processing similar to isoform 2.</p>