

Product datasheet for **MC204624**

Enpp2 (NM_015744) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Enpp2 (NM_015744) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Enpp2
Synonyms:	AT; ATX; Auto; E-NPP 2; lysoPLD; N; Npps2; Pd; PD-; PD-Ialpha; Pdnp2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC058759
 GAAATCGAGCTCTGCACGAATCAGATGCGCCTGTCAACTTCCCAGGTGGGATTGCTTGGAGTTAACAGCC
 TGAACGCAGAGCCCCGAAAGCAGAGCATTACAGGCAAGCAGAGAACACCTGCAGAGGTTTTCCAAGAAT
 CCCTCGGCATGGCAAGACAAGGCTGTTTCGGGTGCATACCAGGTAATATCCTTGTTCACTTTTGCCATCGG
 CGTCAATCTCTGCTTAGGATTACAGCAAGTCGAATTAAGAGGGCCGAATGGGATGAAGGACCTCCCACA
 GTGTTATCTGACTCTCCATGGACCAACACATCTGGATCCTGCAAAGGTAGATGCTTTGAGCTTCAAGAGG
 TTGGACCTCCTGACTGTCGGTGTGACAACCTATGTAAGAGCTACAGCAGCTGCTGCCATGATTTTGATGA
 GCTCTGTTTGAAAACAGCTCGAGGCTGGGAGTGCACCAAAGACAGATGTGGGGAAGTACGAAATGAGGAA
 AATGCCTGTCACTGCTCAGAAGACTGCTTGTCCTGGGGAGACTGCTGTACCAACTACCAAGTGGTCTGCA
 AAGGAGAATCACACTGGGTAGATGATGACTGTGAAGAAATAAGAGTCCCCGAATGCCCTGCAGGGTTTGT
 CCGCCCTCCGTTAATCATCTTCTCTGTGGATGGATTCCGTGCATCGTACATGAAGAAAGGCAGCAAGGTT
 ATGCCCAACATTGAGAACTGCGGTCTGTGGCACCCATGCTCCCTACATGAGGCCTGTGTACCTACAA
 AAACCTTCCCTAATCTGTATACGCTGGCCACTGGTTTATATCCAGAATCCCATGGAATCGTTGGCAATTC
 AATGTATGACCTGTCTTTGATGCTACTTCCATCTTCGAGGGCGAGAGAAGTTAAACCATAGATGGTGG
 GGAGGCCAACCGCTATGGATTACAGCCACCAAGCAAGGGGTGAGAGCCGGGACATTCTTTTGGTCTGTGA
 GCATCCCTCACGAGCGGAGAATCCTAATATCCTTCAGTGGCTTTCCCTGCCAGACAATGAGAGGCCTTC
 AGTTTATGCCTTCTACTCCGAGCAGCCTGATTTTTCTGGACACAAGTACGGCCCTTTTGGCCTGAGATG
 ACAAATCCTCTGAGGGAGATTGACAAGACCGTGGGGCAGTTAATGGACGAGTGAACAACCTCAAGCTGC
 ACCGTTGTGTGAATGTTATCTTTGTTGGAGACCATGGAATGGAAGACGTGACATGTGACAGAAGTGAAGT
 CTTGAGCAACTATCTGACTAACGTGGATGATATTACTTTAGTACCTGGAAGTCTAGGAAGAATTCGACCC
 AAGATTCCTAATAATCTTAAATATGACCTAAAGCCATTATTGCTAACCTCACGTGTAAAAAACAGATC
 AGCACTTAAAGCCTTACATGAAACAGCACCTTCCCAAACGTTTGCACTATGCCAACAATCGGAGAATCGA
 GGATCTCCATTTATTGGTGAACGAGATGGCATGTTGCAAGGAAACCTTTGGACGTTTATAAGAAGCCG
 TCAGGAAAATGTTTTTCCAGGGTGACCACGGCTTTGATAACAAGGTCAATAGCATGCAGACTGTTTTTG
 TAGGTTATGGCCCACTTTTAAAGTACAGGACTAAAGTGCCTCCATTTGAAAACATTGAACTTTATAATGT
 TATGTGCGATCTCCTAGGCTTGAAGCCAGCTCCCAATAATGGAACACATGGAAGTTTGAATCACCTGCTA
 CGCACAATAACCTTTAGGCCAACCTACCAGAGGAAGTCAGCAGACCCAATTACCCAGGGATTATGTACC
 TTCAGTCTGATTTTGACCTGGGCTGCACCTGTGATGATAAGGTAGAGCCAAAGAACAAATTGGAAGAACT
 AAATAAACGCCTTCATACCAAAGGATCTACAGAAGAGAGACATCTCCTGTATGGACGACCTGCAGTGCTT
 TATCGGACTAGCTATGATATCTTATACCATACGGACTTTGAAAGTGGTTACAGTGAATATTCTTAATGC
 CTCTCTGGAATCTTATACCATTTCTAAGCAGGCTGAGGTCTCTAGCATCCAGAGCACCTGACCAACTG
 TGTTCCGCCTGATGTCCGTGTATCTCCTGGATTCAATCAGAACTGTTTAGCCTATAAAAAATGATAAACAG
 ATGTCCTATGGATTCTTTTTCTCCCTATCTGAGCTCTTCCCCAGAAGCGAAATATGATGCATTCTTG
 TAACCAACATGGTTCCAATGTACCCTGCCTTCAAACGTGTTTGGACTATTTCCAAGGGTCTTGGTGAA
 GAAATATGCGTCAGAAAGGAATGGGGTCAACGTAATAAGTGGACCGATCTTTGACTACAATTACAATGGC
 TTACGTGACATTGAGGATGAAATTAACAGTATGTGGAAGGCAGCTCTATTCTGTCCCTACCCACTACT
 ACAGCATCATCACCAGCTGCCTGGACTTCACTCAGCCTGCAGACAAGTGTGATGGTCTCTCTGTGTC
 TTCTTTTCATCCTTCCCTACCGACCTGACAATGATGAGAGCTGTAATAGTCCGAGGATGAGTCGAAGTGG
 GTAGAGGAACATGAAGATGCACACAGCTCGGGTGAGGGACATCGAGCATCTCACCGGTTTGGATTCTC
 ACCGGAAGACTAGCCGTAGCTATTGGAATTTGACCTCAAGACATACCTGCATACATATGAGAGCGA
 GATTTAACTTCTGCGCCTGGGCAGTGTAGTCTTAGCAACTGGTGTATTTTTATATGGTGTGTATT
 TATTAATTTGAAACCAGGACATAAACAACAAAGAAACAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_015744
Insert Size: 2589 bp

OTI Disclaimer:	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).
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:	BC058759 , AAH58759
RefSeq Size:	2853 bp
RefSeq ORF:	2589 bp
Locus ID:	18606
UniProt ID:	Q9R1E6
Cytogenetics:	15 D1
Gene Summary:	<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 (2, also known as beta) lacks an in-frame exon in the central coding region, compared to variant 1. The encoded isoform (2) is shorter, compared to isoform 1.</p>