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Product datasheet for MC229159

Enpp2 (NM_001285995) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Enpp2 (NM_001285995) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Enpp2
Synonyms:	AT; ATX; Auto; E-NPP 2; lysoPLD; N; Npps2; Pd; PD-; PD-Ialpha; Pdnp2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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Fully Sequenced ORF:

>MC229159 representing NM_001285995
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAAGACAAGGCTGTTTCGGGTCATACCAGGTAATATCCTTGTTCACTTTTGCCATCGGCGTCAATC
TCTGCTTAGGATTCACAGCAAGTCGAATTAAGAGGGCCGAATGGGATGAAGGACCTCCCACAGTGTTATC
TGACTCTCCATGGACCAACACATCTGGATCCTGCAAAGGTAGATGCTTTGAGCTTCAAGAGGTTGGACCT
CCTGACTGTCGGTGTGACAACCTATGTAAGAGCTACAGCAGCTGCTGCCATGATTTTGATGAGCTCTGTT
TGAAAACAGCTCGAGGCTGGGAGTGCACCAAAGACAGATGTGGGGAAGTACGAAATGAGGAAAATGCCTG
TCACTGCTCAGAAGACTGCTTGTCCCGGGGAGACTGCTGTACCAACTACCAAGTGGTCTGCAAAGGAGAA
TCACACTGGGTAGATGATGACTGTGAAGAAATAAGAGTCCCCGAATGCCCTGCAGGGTTTGTCCGCCCTC
CGTTAATCATCTTCTCTGTGGATGGATTCCGTGCATCGTACATGAAGAAAGGCAGCAAGGTTATGCCCAA
CATTGAGAAACTGCGGTCCTGTGGCACCCATGCTCCCTACATGAGGCCTGTGTACCCTACAAAAACCTTC
CCTAATCTGTATACGCTGGCCACTGGTTTATATCCAGAATCCCATGGAATCGTTGGCAATTCAATGTATG
ACCCTGTCTTTGATGCTACTTTCCATCTTCGAGGGCGAGAGAAGTTTAACCATAGATGGTGGGGAGGCCA
ACCGCTATGGATTACAGCCACCAAGCAAGGGGTGAGAGCCGGGACATTCTTTTGGTCTGTGAGCATCCCT
CACGAGCGGAGAATCCTAACTATCCTTCAGTGGCTTTCCCTGCCAGACAATGAGAGGCCTTCAGTTTATG
CCTTCTACTCCGAGCAGCCTGATTTTTCTGGACACAAGTACGGCCCTTTTGGCCCTGAGGAGAGTAGTTA
TGGCTCACCTCTTACTCCGGCTAAAAGACCTAAGAGGAAAGTTGCCCCTAAGAGGAGACAGGAAAGACCA
GTTGCTCCTCCAAAGAAAAGAAGAAGAAAATTACATAGGATGGATCATTATACAGCGGAAACACGTCAGG
ACAAAATGACAAATCCTCTGAGGGAGATTGACAAGACCGTGGGGCAGTTAATGGACGGACTGAAACAACT
CAAGCTGCACCGTTGTGTGAATGTTATCTTTGTTGGAGACCATGGAATGGAAGACGTGACATGTGACAGA
ACTGAGTTCTTGAGCAACTATCTGACTAACGTGGATGATATTACTTTAGTACCTGGAACTCTAGGAAGAA
TTCGACCCAAGATTCCCAATAATCTTAAATATGACCCTAAAGCCATTATTGCTAACCTCACGTGTAAAAA
ACCAGATCAGCACTTTAAGCCTTACATGAAACAGCACCTTCCCAAACGTTTGCACTATGCCAACAATCGG
AGAATCGAGGATCTCCATTTATTGGTGGAACGCAGATGGCATGTTGCAAGGAAACCTTTGGACGTTTATA
AGAAGCCGTCAGGAAAATGTTTTTTCCAGGGTGACCACGGCTTTGATAACAAGGTCAATAGCATGCAGAC
TGTTTTTGTAGGTTATGGCCCAACTTTTAAGTACAGGACTAAAGTGCCTCCATTTGAAAACATTGAACTT
TATAATGTTATGTGCGATCTCCTAGGCTTGAAGCCAGCTCCCAATAATGGAACACATGGAAGTTTGAATC
ACCTGCTACGCACAAATACCTTTAGGCCAACCCTACCAGAGGAAGTCAGCAGACCCAATTACCCAGGGAT
TATGTACCTTCAGTCTGATTTTGACCTGGGCTGCACCTGTGATGATAAGAACAAATTGGAAGAACTAAAT
AAACGCCTTCATACCAAAGGATCTACAGAAGAGAGACATCTCCTGTATGGACGACCTGCAGTGCTTTATC
GGACTAGCTATGATATCTTATACCATACGGACTTTGAAAGTGGTTACAGTGAAATATTCTTAATGCCTCT
CTGGACTTCTTATACCATTTCTAAGCAGGCTGAGGTCTCTAGCATCCCAGAGCACCTGACCAACTGTGTT
CGCCCTGATGTCCGTGTATCTCCTGGATTCAGTCAGAACTGTTTAGCCTATAAAAATGATAAACAGATGT
CCTATGGATTCCTTTTTCCTCCCTATCTGAGCTCTTCCCCAGAAGCGAAATATGATGCATTCCTTGTAAC
CAACATGGTTCCAATGTACCCTGCCTTCAAACGTGTTTGGACTTATTTCCAAAGGGTCTTGGTGAAGAAA
TATGCGTCAGAAAGGAATGGGGTCAACGTAATAAGTGGACCGATCTTTGACTACAATTACAATGGCTTAC
GTGACATTGAGGATGAAATTAAACAGTATGTGGAAGGCAGCTCTATTCCTGTCCCTACCCACTACTACAG
CATCATCACCAGCTGCCTGGACTTCACTCAGCCTGCAGACAAGTGTGATGGTCCTCTCTCTGTGTCTTCT
TTCATCCTTCCTCACCGACCTGACAATGATGAGAGCTGTAATAGTTCCGAGGATGAGTCGAAGTGGGTAG
AGGAACTCATGAAGATGCACACAGCTCGGGTGAGGGACATCGAGCATCTCACCGGTTTGGATTTCTACCG
GAAGACTAGCCGTAGCTATTCGGAAATTCTGACCCTCAAGACATACCTGCATACATATGAGAGCGAGATT
TAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

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ACCN:	NM_001285995
Insert Size:	2733 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001285995.2, NP_001272924.1
RefSeq Size:	3401 bp
RefSeq ORF:	2733 bp
Locus ID:	18606
UniProt ID:	Q9R1E6
Cytogenetics:	15 D1
Gene Summary:	This gene encodes a member of the phosphodiesterase and nucleotide pyrophosphatase family of bifunctional enzymes that hydrolize 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] Transcript Variant: This variant (4, also known as epsilon) uses an alternate in-frame splice site in the central coding region, compared to variant 1. The encoded isoform (4) is shorter, compared to isoform 1. This isoform (4) may undergo proteolytic processing similar to isoform 2.

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