

Product datasheet for **MC200176**

Enpp2 (BC003264) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Enpp2 (BC003264) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Enpp2
Synonyms:	ATX, Npps2, Autotaxin, PD-lalpha
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC003264
 CCCACGCGTCCGCCACGCGTCCGGAGAACACCCTGCAGAGGTTTTCCAAGAATCCCTCGGCATGGCAAG
 ACAAGGCTGTTTTCGGGTCATACCAGGTAATATCCTTGTTCACTTTTGCCATCGGCGTCAATCTCTGCTTA
 GGATTCACAGCAAGTCAATTAAGAGGGCCGAATGGGATGAAGGACCTCCACAGTGTTATCTGACTCTC
 CATGGACCAACACATCTGGATCCTGCAAAGGTAGATGCTTTGAGCTTCAAGAGGTTGGACCTCCTGACTG
 TCGGTGTGACAACCTATGTAAGAGCTACAGCAGCTGCTGCCATGATTTTGATGAGCTCTGTTTAAAAACA
 GCTCGAGGCTGGGAGTGCACAAAGACAGATGTGGGGAAGTACGAAATGAGGAAAAATGCCTGTCACTGCT
 CAGAAGACTGCTTGTCCCGGGGAGACTGCTGTACCAACTATCAAGTGGTCTGCAAAGGAGAATCACACTG
 GGTAGATGATGACTGTGAAGAAATAAGAGTCCCTGAATGCCCTGCAGGTTTTGTCCGCCCTCCGTTAATC
 ATCTTCTCTGTGGATGGATTCCGTGCATCGTACATGAAGAAAAGGCAGCAAGGTTATGCCAACATTGAGA
 AACTGCGGTCTGTGGCACCCATGCTCCCTACATGAGGCTGTGTACCCTACAAAAACCTTCCCTAATCT
 GTATACGCTGGCCACTGGTTTATATCCAGAATCCCATGGAATCGTTGGCAATTCAATGTATGACCCTGTC
 TTTGATGCTACTTTCCATCTTCGAGGGCAGAGAAGTTTAAACCATAGATGGTGGGAGGCCAACCCGCTAT
 GGATTACAGCCACCAAGCAAGGGGTGAGAGCCGGGACATTCTTTTGGTCTGTGAGCATCCCTCACGAGCG
 GAGAATCCTAACTATCCTTCAGTGGCTTCCCTGCCAGACAATGAGAGGCCCTTCAGTTTATGCCTTCTAC
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 TATCTTTGTTGGAGACCATGGAATGGAAGACGTGACATGTGACAGAAGTACTGTTCTTGTAGCAACTATCTG
 ACTAACGTGGATGATATTACTTTAGTACCTGGAACCTAGGAAGAATTCGACCCAAGATTCCCAATAATC
 TAAATATGACCCATAAGCCATTATTGTAACCTCACGTGTAACCAACAGATCAGCACTTTAAGCCTTA
 CATGAAACAGCACCTTCCCAAACGTTTGCATATGCCAACATCGGAGAATCGAGGATCTCCATTTATTG
 GTGGAACGCAGATGGCATGTTGCAAGGAAACCTTTGGACGTTTATAAGAAGCCGTCAGGAAAAATGTTTTT
 TCCAGGTGACCCACGGCTTTGATAACAAGGTCAATAGCATGCAGACTGTTTTTGTAGTTATGGCCCAAC
 TTTTAAGTACAGGACTAAAGTGCCTCCATTTGAAAACATTGAACCTTTAATGTTATGTGGCATCTCCTA
 GGCTTGAAGCCAGCTCCCAATAATGGAACACATGGAAGTTTGAATCACCTGCTACGCACAAATACCTTTA
 GGCCAACCTACCAGAGGAAGTCAGCAGACCCAATTACCCAGGGATTATGTACCTTCAGTCTGATTTTGA
 CCTGGGCTGCACCTGTGATGATAAGGTAGAGCCAAAGAACAATTTGGAAGAACTAAATAAACGCCTTCAT
 ACCAAAGGATCTACAGAAGAGAGACATCTCCTGTATGGACGACCTGCAGTCTTTATCGGACTAGCTATG
 ATATCTTATACCATACGGACTTTGAAAGTGGTTACAGTGAATATTCTTAATGCCTCTCTGGACTTCTTA
 TACCATTTCTAAGCAGGCTGAGGTCTCTAGCATCCAGAGCACCTGACCAACTGTGTTCCGCCTGATGTC
 CGTGTATCTCCTGGATTCAGTCAGAACTGTTTAGCCTATAAAAAATGATAAACAGATGTCCTATGGATTCC
 TTTTTCTCCCTATCTGAGCTCTTCCCCAGAAGCGAAATATGATGCATTCCTTGTAAACCAACATGGTTCC
 AATGTACCTGCCTTCAAACGTGTTTGGACTTATTTCAAAGGGTCTTGGTGAAGAAATATGCGTCAGAA
 AGGAATGGGGTCAACGTAATAAGTGGACCGATCTTTGACTACAATTACGATGGCTTACGTGACATTGAGG
 ATGAAATTAACAGTATGTGGAAGGCAGCTCTATTCTGTCCCTACCCACTACTACAGCATCATACCAG
 CTGCCTGGACTTCACTCAGCCTGCAGACAAGTGTGATGGTCTCTCTGTGTCTCTTTTCATCCTTCTCT
 CACCGACCTGACAATGATGAGAGCTGTAATAGTCCGAGGATGAGTCGAAGTGGGTAGAGGAACTCATGA
 AGATGCACACAGCTCGGGTGGAGGACATCGAGCATCTACCGGTCTGGATTTCTACCGGAAGACTAGCCG
 TAGCTATTGCGAAATTCGACCCTCAAGACATACCTGCATACATATGAGAGCGAGATTTAACTTCTGGG
 CCTGGGCAGTGTAGTCTTAGCAACTGGTGTATATTTTTATATGGTGTGTTTTATTTATTAATTTGAAACCA
 GGACATAAACAAACAAAGAAACAATGAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: BC003264
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:	<u>BC003264</u> , <u>AAH03264</u>
RefSeq Size:	2772 bp
RefSeq ORF:	2589 bp
Locus ID:	18606
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>