

## Product datasheet for **MR210991**

### Enpp2 (NM\_015744) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Enpp2 (NM_015744) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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**ORF Nucleotide Sequence:**

>MR210991 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCAAGACAAGGCTGTTTCGGGTCATACCAGGTAATATCCTTGTTCACTTTTGCCATCGGCGTCAATC  
 TCTGCTTAGGATTCACAGCAAGTCAATTAAGAGGGCCGAATGGGATGAAGGACCTCCACAGTGTATC  
 TGAATCTCCATGGACCAACATCTGGATCCTGCAAAGGTAGATGCTTTGAGCTTCAAGAGTTGGACCT  
 CCTGACTGTCGGTGTGACAACCTATGTAAGAGCTACAGCAGCTGCTGCCATGATTTTGTAGACTGTGT  
 TGAACACAGCTCGAGGCTGGGAGTGCACCAAGACAGATGTGGGGAAGTACGAAATGAGGAAATGCCTG  
 TCACTGCTCAGAAGACTGCTTGTCCCGGGGAGACTGCTGTACCAACTATCAAGTGGTCTGCAAAGGAGAA  
 TCACACTGGGTAGATGATGACTGTGAAGAAATAAGAGTCCCTGAATGCCCTGCAGGGTTTGTCCGCCCTC  
 CGTTAATCATCTTCTGTGGATGGATTCCGTGCATCGTACATGAAGAAAGGCAGCAAGGTTATGCCCAA  
 CATTGAGAAACTCGGGTCTGTGGCACCATGCTCCCTACATGAGGCCTGTGTACCCTACAAAAACCTTC  
 CCTAATCTGTATACGCTGGCCACTGGTTTATATCCAGAATCCCATGGAATCGTTGCAATCAATGTATG  
 ACCCTGTCTTTGATGCTACTTTCCATCTTCGAGGGCGAGAGAAGTTTAAACATAGATGGTGGGGAGGCCA  
 ACCGCTATGGATTACAGCCACCAAGCAAGGGGTGAGAGCCGGGACATTCTTTTGGTCTGTGAGCATCCCT  
 CACGAGCGGAGAAATCCTAACTATCCTTCAGTGGCTTTCCCTGCCAGACAATGAGAGGCCCTCAGTTTATG  
 CCTTCTACTCCGAGCAGCTGATTTTCTGGACACAAGTACGGCCCTTTTGGCCCTGAGATGACAAATCC  
 TCTGAGGGAGATTGACAAGACCGTGGGGCAGTTAATGGACGGACTGAAACAACCTCAAGCTGCACCGTTGT  
 GTGAATGTTATCTTTGTGGAGACCATGGAATGGAAGACGTGACATGTGACAGAAGTTCGACCAAGATTCC  
 CAATAATCTTAAATATGACCCTAAAGCCATTATTGCTAACCTCACGTGTAAAAAACAGATCAGCACTTT  
 AAGCCTTACATGAAACAGCACCTTCCCAAACGTTTGCATATGCCAACAAATCGGAGAATCGAGGATCTCC  
 ATTTATTGGTGAACGCAGATGGCATGTTGCAAGGAAACCTTTGGACGTTTATAAGAAGCCGTGAGGAAA  
 ATGTTTTTCCAGGGTGACCACGGCTTTGATAACAAGGTCAATAGCATGCAGACTGTTTTGTAGGTTAT  
 GGCCCAACTTTTAAAGTACAGGACTAAAGTGCCTCCATTTGAAAACATTGAACTTTATAATGTTATGTGCG  
 ATCTCCTAGGCTTGAAGCCAGCTCCCAATAATGGAACACATGGAAGTTTGAATCACCTGCTACGCACAAA  
 TACCTTTAGGCCAACCTACCAGAGGAAGTCAGCAGACCCAATTACCCAGGGATTATGTACCTTCAGTCT  
 GATTTTACCTGGGCTGCACCTGTGATGATAAGGTAGAGCCAAAGAACAATTTGAAGAATAAATAAAC  
 GCCTTCATACCAAGGATCTACAGAAGAGAGACATCTCCTGTATGGACGACCTGCAGTGCTTTATCGGAC  
 TAGCTATGATATCTTATACCATACGGACTTTGAAAGTGGTTACAGTGAATATTCTTAATGCCTCTCTGG  
 ACTTCTTATACCATTTCTAAGCAGGCTGAGGTCTCTAGCATCCCAGAGCACCTGACCAACTGTGTTCCGC  
 CTGATGTCGGTGTATCTCCTGGATTCACTCAGAAGTGTAGCCTATAAAAAATGATAAACAGATGTCCTA  
 TGGATTCTTTTTCTCCCTATCTGAGCTCTTCCCAAGAGCGAAATATGATGCATTCTTGTAAACCAAC  
 ATGTTTCCAATGTACCCTGCCTTCAAACGTGTTGGACTTATTTCCAAAGGGTCTGGTGAAGAAATATG  
 CGTCAGAAAGGAATGGGGTCAACGTAATAAGTGGACCGATCTTTGACTACAATTACGATGGCTTACGTGA  
 CATTGAGGATGAAATTAACAGTATGTGGAAGGCAGCTCTATTCTGTCCCTACCCACTACTACAGCATC  
 ATCACCAGCTGCCTGGACTTCACTCAGCCTGCAGACAAGTGTGATGGTCCCTCTCTGTGCTTCTTCA  
 TCTTCTCACCGACCTGACAATGATGAGAGCTGTAATAGTTCGAGGATGAGTCGAAGTGGGTAGAGGA  
 ACTCATGAAGATGCACACAGCTCGGGTGAAGGACATCGAGCATCTCACCGGTCTGGATTTCTACCGGAAG  
 ACTAGCCGTAGCTATTCGAAATTCGACCCTCAAGACATACCTGCATACATATGAGAGCGAGATT

**ACCGGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210991 protein sequence  
 Red=Cloning site Green=Tags(s)

MARQCGFGSYQVISLFFFAIGVNLCLGFTASRIKRAEWDEGPPTVLSDSPWTNTSGSCKGRFCLEQEVGP  
 PDCRCDNLCKSYSSCCHDFDELCLKTARGWECTKDRCGEVRNEENACHCEDCLSRGDCCCTNYQVVKGE  
 SHWVDDDCIEIRVPECPAGFVRPPLIIFSVDFRASymkKGSkVMPNIEKLRSCGTHAPYMRPVYPTKTF  
 PNLTYLATGLYPESHGIVGNSMYDPVFDAFFHLRGREKFNHRWGGQPLWITATKQGVRAgTFFWSVSIP  
 HERRILITLQWLSLPDNERPSVYAFYSEQPDFSGHKYGFPGPEMTNPLREIDKTVGQLMDGLKQLKLRHC  
 VNVIFVGDHGMEDVTCDRTEFLSNYL TNVDDITLVPGTLGRIRPKIPNNLKYPKAIANLTCCKPDQHF  
 KPymKQHLpkRLHYANNRRIEDLHLLVERRWHVARKPLDVYKKPSGKCFQGDHGFdnkVNSMQTVFVGY  
 GPTFKYRTKVPFFENIELYNMCDLLGLKpAPNNGTHGSLNHLLRTNTFRPTLPEEVSrPNYPGIMYLS  
 DFDLgCTCDDKVEPKNLEELNkRLHTKGSTeERHLLYGRPAVL YRTSYDILYHTDFESGYSEIFLmPLW  
 TSYTISKQAEVSSIPEHLTNCVRPDVrVSPGFSQnCLAYKNDKQMSYGLFPPYLSSSPEAKYDAFLVTN  
 MvMPYpAFKRvWTFYQRVLVKKYASERNGvNVIsgPIFDYNYDGLRDIEDEIKQYVEGSSIPVpTHYYSI  
 ITsCLDFtQpADKCDGpLSVSSFIpLHRPDnDESCNSSEDESKWVEELMKMHTARVRDIEHLTGLDFYRK  
 TSRSYSEILTLKTYLHTYESEI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

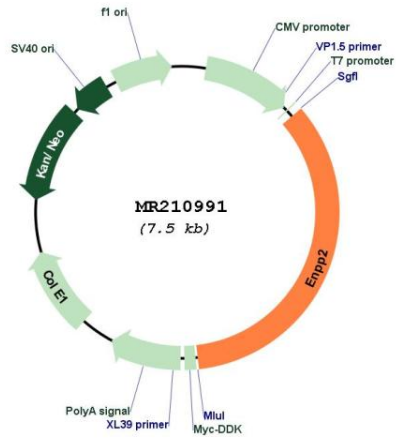
SgfI-MluI

Cloning Scheme:



<b>ACCN:</b>	NM_015744
<b>ORF Size:</b>	2589 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_015744.1</a> , <a href="#">NM_015744.2</a> , <a href="#">NM_015744.3</a> , <a href="#">NM_015744.4</a> , <a href="#">NP_056559.1</a>
<b>RefSeq Size:</b>	3461 bp
<b>RefSeq ORF:</b>	2589 bp
<b>Locus ID:</b>	18606
<b>UniProt ID:</b>	<a href="#">Q9R1E6</a>
<b>Cytogenetics:</b>	15 D1
<b>MW:</b>	98.9 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for MR210991