

## Product datasheet for **MG210991**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Enpp2 (NM_015744) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Enpp2
Synonyms:	AT; ATX; Auto; E-NPP 2; lysoPLD; N; Npps2; Pd; PD-; PD-1alpha; Pdnp2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>MG210991 representing NM\_015744  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGCAAGACAAGGCTGTTTCGGGTCATACCAGGTAATATCCTTGTTCACTTTTGCCATCGGCGTCAATC  
TCTGCTTAGGATTCACAGCAAGTCAATTAAGAGGGCCGAATGGGATGAAGGACCTCCACAGTGTATC  
TGACTCTCCATGGACCAACACATCTGGATCCTGCAAAGGTAGATGCTTTGAGCTTCAAGAGTTGGACCT  
CCTGACTGTCGGTGTGACAACCTATGTAAGAGCTACAGCAGCTGCTGCCATGATTTTGATGAGCTGTGT  
TGAAAACAGCTCGAGGCTGGGAGTGCACCAAAGACAGATGTGGGGAAGTACGAAATGAGGAAAATGCCTG  
TCACTGCTCAGAAGACTGCTTGTCCCGGGGAGACTGCTGTACCAACTATCAAGTGGTCTGCAAAGGAGAA  
TCACACTGGGTAGATGATGACTGTGAAGAAATAAGAGTCCCTGAATGCCCTGCAGGGTTTGTCCGCCCTC  
CGTTAATCATCTTCTGTGGATGGATTCCGTGCATCGTACATGAAGAAAGGCAGCAAGGTTATGCCCAA  
CATTGAGAAACTCGGGTCTGTGGCACCATGCTCCCTACATGAGGCCTGTGTACCCTACAAAAACCTTC  
CCTAATCTGTATACGCTGGCCACTGGTTTATATCCAGAATCCCATGGAATCGTTGCAATCAATGTATG  
ACCCTGTCTTTGATGCTACTTTCCATCTTCGAGGGCGAGAGAAGTTTAAACCATAGATGGTGGGGAGGCCA  
ACCGCTATGGATTACAGCCACCAAGCAAGGGGTGAGAGCCGGGACATTCTTTTGGTCTGTGAGCATCCCT  
CACGAGCGGAGAAATCCTAACTATCCTTCAGTGGCTTTCCCTGCCAGACAATGAGAGGCCTTCAGTTTATG  
CCTTCTACTCCGAGCAGCTGATTTTCTGGACACAAGTACGGCCCTTTTGGCCCTGAGATGACAAATCC  
TCTGAGGGAGATTGACAAGACCGTGGGGCAGTTAATGGACGGACTGAAACAACCTCAAGCTGCACCGTTGT  
GTGAATGTTATCTTTGTGGAGACCATGGAATGGAAGACGTGACATGTGACAGAAGTTCGACCAAGATTCC  
CAATAATCTTAAATATGACCCTAAAGCCATTATTGCTAACCTCACGTGTAAAAAACAGATCAGCACTTT  
AAGCCTTACATGAAACAGCACCTTCCCAAACGTTTGCATATGCCAACAAATCGGAGAATCGAGGATCTCC  
ATTTATTGGTGAACGCAGATGGCATGTTGCAAGGAAACCTTTGGACGTTTATAAGAAGCCGTGAGGAAA  
ATGTTTTTCCAGGGTGACCACGGCTTTGATAACAAGGTCAATAGCATGCAGACTGTTTTGTAGGTTAT  
GGCCCAACTTTTAAAGTACAGGACTAAAGTGCCTCCATTTGAAAACATTGAACTTTATAATGTTATGTGCG  
ATCTCCTAGGCTTGAAGCCAGCTCCCAATAATGGAACACATGGAAGTTTGAATCACCTGCTACGCACAAA  
TACCTTTAGGCCAACCTACCAGAGGAAGTCAGCAGACCCAATTACCCAGGGATTATGTACCTTCAGTCT  
GATTTTACCTGGGCTGCACCTGTGATGATAAGGTAGAGCCAAAGAACAATTGGAAGAACTAAATAAAC  
GCCTTCATACCAAGGATCTACAGAAGAGAGACATCTCCTGTATGGACGACCTGCAGTGCTTTATCGGAC  
TAGCTATGATATCTTATACCATACGGACTTTGAAAGTGGTTACAGTGAAATATTCTTAATGCCTCTCTGG  
ACTTCTTATACCATTTCTAAGCAGGCTGAGGTCTCTAGCATCCCAGAGCACCTGACCAACTGTGTTCCGCC  
CTGATGTCGGTGTATCTCCTGGATTCAAGTACAGAACTGTTAGCCTATAAAAAATGATAAACAGATGCCTA  
TGGATTCTTTTTCTCCTATCTGAGCTCTTCCCAAGAGCGAAATATGATGCATTCTTGTAAACCAAC  
ATGGTTCCAATGTACCCTGCCTTCAAACGTGTTGGACTTATTTCCAAAGGGTCTGGTGAAGAAATATG  
CGTCAGAAAGGAATGGGGTCAACGTAATAAGTGGACCGATCTTTGACTACAATTACGATGGCTTACGTGA  
CATTGAGGATGAAATTAACAGTATGTGGAAGGCAGCTCTATTCTGTCCCTACCCACTACTACAGCATC  
ATCACCAGCTGCCTGGACTTCACTCAGCCTGCAGACAAGTGTGATGGTCCCTCTCTGTGTCTTCTTCA  
TCTTCTCACCGACCTGACAATGATGAGAGCTGTAATAGTTCGAGGATGAGTCGAAGTGGGTAGAGGA  
ACTCATGAAGATGCACACAGCTCGGGTGGAGGACATCGAGCATCTCACCGGTCTGGATTTCTACCGGAAG  
ACTAGCCGTAGCTATTCGAAATTCGACCCTCAAGACATACCTGCATACATATGAGAGCGAGATT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG210991 representing NM\_015744  
Red=Cloning site Green=Tags(s)

MARQCGFGSYQVISLFTFAIGVNLCLGFTASRIKRAEWDEGPPTVLSDSPWTNTSGSCKGRCFELQEVGP  
PDCRCNDLCKSYSSCCHDFDELCLKTARGWECTKDRCGEVRNEENACHCEDCLSRGDCCNTYQVVCKGE  
SHWVDDDCIEIRVPECPAGFVRPPLIIFSVDFRASVMKKGSKVMPNIEKLRSCGTHAPYMRPVYPTKTF  
PNLYTLATGLYPESHGIVGNSMYDPVFDAFHLRGREKFNHRWWGGQPLWITATKQGVRAAGTFFWSVSIP  
HERRILTILQWLSLPDNERPSVYAFYSEQPDFSGHKYGFPGPEMTNPLREIDKTVGQLMDGLKQLKLRHC  
VNVIFVGDHGMEDVTCDRTEFLSNYLTNVDDITLVPGTLGRIRPKIPNNLKYDPKAIANLTCCKPDQHF  
KPYMKQHLPKRLHYANNRRIEDLHLLVERRWHVARKPLDVYKKPSGKCFQGDHGFDNKVNMQTVFVGY  
GPTFKYRTKVPPFENIELYNMCDLLGLKPAPNNGTHGSLNHLRLTNTFRPTLPEEVSRLNYPGIMYLS  
DFDLGCTCDDKVEPKNLEELNKRLHTKGSTEERHLLYGRPAVL YRTSYDILYHTDFESGYSEIFLMPLW  
TSYTIKQAEVSSIPEHLTNCVRPDVRSVPGFSQNCCLAYKNDKQMSYGFLLFPPYLSSSPEAKYDAFLVTN  
MVPMPYPAFKRVWTFYQVRLVKKYASERNGVNVISGPIFDYNYDGLRDIEDEIKQYVEGSSIPVPTHYYSI  
ITSCLDFTQPADKCDGPLSVSSFILPHRPDNDENSCNSEDKWEELMKMHTARVRDIEHLTGLDFYRK  
TSRSYSEILTLKTYLHTYESEI

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-Mlul



<b>ACCN:</b>	NM_015744
<b>ORF Size:</b>	2586 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="#">NP_056559.1</a>
<b>RefSeq Size:</b>	3242 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>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]