

## Product datasheet for **RC226237**

### ENPP2 (NM\_001130863) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ENPP2 (NM_001130863) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ENPP2
Synonyms:	ATX; ATX-X; AUTOTAXIN; LysoPLD; NPP2; PD-IALPHA; PDNP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC226237 representing NM\_001130863  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCAAGGAGGAGCTCGTTCCAGTCGTGTGACATAATATCCCTGTTCACTTTTGCCGTTGGAGTCAATA  
 TCTGCTTAGGATTCACTGCACATCGAATTAAGAGAGCAGAAGGATGGGAGGAAGGTCCTCTACAGTGCT  
 ATCAGACTCCCCCTGGACCAACATCTCCGGATCTTGCAAGGGCAGGTGCTTTGAACCTCAAGAGGCTGGA  
 CCTCTGATTGTCGCTGTGACAACCTGTGTAAGAGCTATACCAGTTGCTGCCATGACTTTGATGAGCTGT  
 GTTTGAAGACAGCCCGTGGCTGGGAGTGTACTAAGGACAGATGTGGAGAAGTCAGAAATGAAGAAAATGC  
 CTGTCAGTCTCAGAGGACTGCTTGCCAGGGGAGACTGCTGTACCAATTACCAAGTGGTTTGCAAAGGA  
 GAGTCGCATTGGGTTGATGATGACTGTGAGGAAATAAAGGCCGAGAATGCCCTGCAGGGTTTGTTCGCC  
 CTCATTAAATCATCTTCTCCGTGGATGGCTTCCGTGCATACATGAAGAAAGGCAGCAAAGTCATGCC  
 TAATATTGAAAACTAAGGTCTTGTGGCACACACTCTCCCTACATGAGGCCGGTGTACCCAATAAAACC  
 TTTCTAACTTATACACTTTGGCCACTGGGCTATATCCAGAATCATGGAATTGTTGGCAATTCATGT  
 ATGATCCTGTATTTGATGCCACTTTTCATCTGCGAGGGCGAGAGAAATTAATCATAGATGGTGGGGAGG  
 TCAACCGCTATGGATTACAGCCACCAAGCAAGGGGTGAAAGCTGGAACATTCTTTTGGTCTGTTGTCATC  
 CCTCAGAGCGGAGAATTAACCATATTGCAAGTGGCTCACCCCTGCCAGATCATGAGAGGCCCTTCGGTCT  
 ATGCCCTTCTATTCTGAGCAACCTGATTTCTCTGGACACAAATATGGCCCTTTTCGGCCCTGAGATGACAAA  
 TCCTCTGAGGGAAATCGACAAAATTGTGGGGCAATTAATGGATGGACTGAAACAATAAACTGCATCGG  
 GTGTCAACGTCATCTTGTGCGAGACCATGGAATGGAAGATGTCACATGTGATAGAAGTCAAGTCTTGA  
 GTAATTACCTAATAATGTGGATGATATTACTTTAGTGCCTGGAACCTAGGAAGAATTCGATCCAAAT  
 TAGCAACAATGCTAAATATGACCCCAAAGCCATTATTGCCAATCTCACGTGTAATAAACAGATCAGCAC  
 TTTAAGCCTTACTTGAACAGCACCTTCCCAAACGTTTGCATATGCCAACAACAGAAGAATTGAGGATA  
 TCCATTTATTGGTGAACGCAGATGGCATGTTGCAAGGAAACCTTTGGATGTTTATAAGAAACCATCAGG  
 AAAATGCTTTTTCCAGGGAGACCACGGATTTGATAACAAGGTCAACAGCATGCAGACTGTTTTTGTAGGT  
 TATGGCCCAACATTTAAGTACAAGACTAAAGTGCCTCCATTTGAAAACATTGAACTTTACAATGTTATGT  
 GTGATCTCCTGGGATTGAAGCCAGCTCCTAATAATGGGACCCATGGAAGTTTGAATCATCTCCTGCGCAC  
 TAATACCTTCAGGCCAACATGCCAGAGGAAGTTACCAGACCAATTATCCAGGGATTATGTACCTTCAG  
 TCTGATTTTGACCTGGGCTGCATTTGTGATGATAAGGTAGAGCCAAAGAACAAGTTGGATGAACTCAACA  
 AACGGCTTCATACAAAAGGGTCTACAGAAGCTGAAACCAGGAAATTCAGAGGCAGCAGAAATGAAAACAA  
 GGAAAACATTAATGGAATTTTGAACCTAGAAAAGAGAGACACCTCCTCTATGGGCAACCTGCAGTGCTT  
 TATCGGACTAGATATGATATCTTATACACTGACTTTGAAAGTGGTTATAGTGAATATTCCTAATGC  
 CACTCTGGACATCATATACTGTTTCCAACAGGCTGAGGTTTCCAGCGTTCCTGACCATCTGACCAGTTG  
 CGTCCGGCCTGATGTCCGTGTTTCTCCGAGTTTCAGTCAGAAGTGTGGCCTACAAAAATGATAAGCAG  
 ATGTCCTACGGATTCTCTTTCTCCTTATCTGAGCTCTCACCAGAGGCTAAATATGATGCATTCCTTG  
 TAAACCAATATGGTTCCAATGTATCTGCTTTCAAACGGGTCTGGAATATTTCAAAGGGTATTGGTGAA  
 GAAATATGCTTCGAAAGAAAATGGAGTTAACGTGATAAGTGGACCAATCTCGACTATGACTATGATGGC  
 TTACATGACACAGAAGACAAAATAAACAGTACGTGGAAGGCAGTTCCATTCTGTTCCAACCTACTACT  
 ACAGCATCATCACCAGCTGTCTGGATTTCACTCAGCCTGCCGACAAGTGTGACGGCCCTCTCTGTGTGTC  
 CTCCTTATCCTGCCTCACCGCCCTGACAAAGGAGAGCTGCAATAGCTCAGAGGACGAATCAAATGG  
 GTAGAAGAACTCATGAAGATGCACACAGCTCGGGTGCCTGACATTGAACATCTCACCAGCCTGGACTTCT  
 TCCGAAAGACCAGCCGAGCTACCCAGAATCCTGACACTCAAGACATACCTGCATACATATGAGAGCGA  
 GATT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC226237 representing NM\_001130863  
 Red=Cloning site Green=Tags(s)

MARRSSFQSCQIISLFTFAVGVNICLGFTAHRKRAEGWEEGPPTVLSDSPWTNISGSCKGRFELQEAG  
 PPDCRCNDLCKSYTSCCHDFDELCLKTARGWECTKDRCGEVRNEENACHCEDCLARGDCCTNYQVVKCG  
 ESHWVDDDCCEEIKAAECPAGFVRPPLIIFSVDFRASVMKKGSKVMPNIEKLRSCGTHSPYMRPVYPTKT  
 FPNLYTLATGLYPESHGIVGNSMYDPVFDATFHLLRGREKFNHRWWGGQPLWITATKQGVKAGTFFWSVVI  
 PHERRILTILQWLTLPDHERPSVYAFYSEQPDFSGHKYGPFGPEMTNPLREIDKIVGQLMDGLKQLKLR  
 CVNVIFVGDHGMEDVTCRTEFLSNYL TNVDDITLVPGLGRIRSKFSNNAKYDPKAIIANLTCKKPDQH  
 FKPYLKQHLPKRLHYANNRRIEDIHLLVERRWHVARKPLDVYKKPSGKCFQGDHGFDNKVNMQTVFVG  
 YGPTFKYKTKVPPFENIELYNVMCDLLGLKPAPNNGTHGSLNHLRLTNTFRPTMPEEVTRPNYPGIMYLQ  
 SDFDLGCTCDDKVEPKNKLDELNKRHTKGSTEAETRFGRSRNENKENINGNFEPKREHLLYQPAVL  
 YRTRYDILYHTDFESGYSEIFLMPLWTSYTVSKQAEVSSVPDHLTSCVRPDVRSVPSFSQNCLAYKNDKQ  
 MSYGFLFPPYLSSPEAKYDAFLVTNMVPMYPAFKRVWNYFQRLVKKYASERNGVNVISGPIFDYDYDG  
 LHDTEDIKQYVEGSSIPVPTHYYSIITSCLDFTQPADKCDGPLSVSSFILPHRPDNEESCNSSEDESKW  
 VEELMKMHTARVRDIEHLTSLDFFRKTSRYPEILTLKTYLHTYESEI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg3143\\_e01.zip](https://cdn.origene.com/chromatograms/mg3143_e01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:

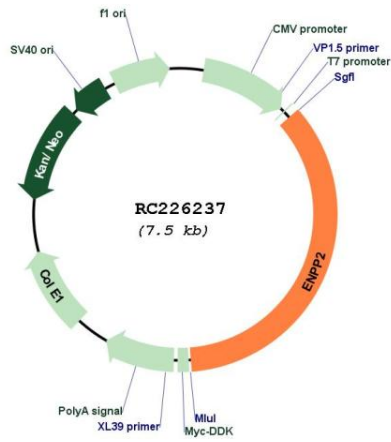


\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001130863

<b>ORF Size:</b>	2664 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_001130863.3</a>
<b>RefSeq ORF:</b>	2667 bp
<b>Locus ID:</b>	5168
<b>UniProt ID:</b>	<a href="#">Q13822</a>
<b>Cytogenetics:</b>	8q24.12
<b>Protein Families:</b>	Druggable Genome, Transcription Factors, Transmembrane
<b>Protein Pathways:</b>	Ether lipid metabolism
<b>MW:</b>	101.95 kDa
<b>Gene Summary:</b>	The protein encoded by this gene functions as both a phosphodiesterase, which cleaves phosphodiester bonds at the 5' end of oligonucleotides, and a phospholipase, which catalyzes production of lysophosphatidic acid (LPA) in extracellular fluids. LPA evokes growth factor-like responses including stimulation of cell proliferation and chemotaxis. This gene product stimulates the motility of tumor cells and has angiogenic properties, and its expression is upregulated in several kinds of carcinomas. The gene product is secreted and further processed to make the biologically active form. Several alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Aug 2008]

Product images:



Circular map for RC226237