

Product datasheet for **RG205377**

ENPP2 (NM_001040092) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ENPP2 (NM_001040092) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ENPP2
Synonyms:	ATX; ATX-X; AUTOTAXIN; LysoPLD; NPP2; PD-IALPHA; PDNP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG205377 representing NM_001040092
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCAAGGAGGAGCTCGTTCCAGTCGTGTGACATAATATCCCTGTTCACTTTTGCCGTTGGAGTCAATA
 TCTGCTTAGGATCACTGCACATCGAATTAAGAGAGCAGAAGGATGGGAGGAAGTCTCTACAGTGCT
 ATCAGACTCCCCCTGGACCAACATCTCCGGATCTTGCAAGGGCAGGTGCTTTGAACCTCAAGAGGCTGGA
 CCTCTGATTGTCGCTGTGACAACCTGTGTAAGAGCTATACCAGTTGCTGCCATGACTTTGATGAGCTGT
 GTTTGAAGACAGCCCGTGGCTGGGAGTGTACTAAGGACAGATGTGGAGAAGTCAGAAATGAAGAAAATGC
 CTGTCAGTCTCAGAGGACTGCTTGCCAGGGGAGACTGCTGTACCAATTACCAAGTGGTTTGCAAAGGA
 GAGTCGCATTGGTTGATGATGACTGTGAGGAAATAAAGGCCGAGAATGCCCTGCAGGGTTTGTTCGCC
 CTCATTAAATCATCTTCCGTGGATGGCTTCCGTGCATACATGAAGAAAGGCAGCAAAGTCATGCC
 TAATATTGAAAACTAAGTCTTGTGGCACACACTCTCCCTACATGAGGCCGGTGTACCCAATAAAACC
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 ATGATCTGTATTTGATGCCACTTTTCATCTGCGAGGGCGAGAGAAATTAATCATAGATGGTGGGGAGG
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 CCTCAGAGCGGAGAATATTAACCATATTGAGTGGCTCACCCCTGCCAGATCATGAGAGGCCCTTCGGTCT
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 TCCTCTGAGGGAAATCGACAAAATTGTGGGGCAATTAATGGATGGACTGAAACAATAAACTGCATCGG
 GTGTCAACGTCATCTTGTGCGGAGACCATGGAATGGAAGATGTCACATGTGATAGAAGTCAAGTCTTGA
 GTAATTACCTAATAATGTGGATGATATTACTTTAGTGCCTGGAACCTAGGAAGAATTCAGTCCAAAT
 TAGCAACAATGCTAAATATGACCCCAAAGCCATTATTGCCAATCTCACGTGTAATAAAACAGATCAGCAC
 TTTAAGCCTTACTTGAACAGCACCTTCCCAAACGTTTGCATATGCCAACACAGAAGAATTGAGGATA
 TCCATTTATTGGTGAACGCAGATGGCATGTTGCAAGGAAACCTTTGGATGTTTATAAGAAACCATCAGG
 AAAATGCTTTTTCCAGGGAGACCACGGATTTGATAACAAGGTCAACAGCATGCAGACTGTTTTTGTAGGT
 TATGGCCCAACATTTAAGTACAAGACTAAAGTGCCTCCATTTGAAAACATTGAACTTTACAATGTTATGT
 GTGATCTCCTGGATTGAAGCCAGCTCCTAATAATGGGACCCATGGAAGTTTGAATCATCTCCTGCGCAC
 TAATACCTTCAGGCCAACATGCCAGAGGAAGTACCAGACCAATTATCCAGGGATTATGTACCTTCAG
 TCTGATTTTACCTGGGCTGCATTTGTGATGATAAGGTAGAGCCAAAGAACAAGTTGGATGAACTCAACA
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 GACTAGATATGATATCTTATATCACACTGACTTTGAAAGTGGTTATAGTAAAATTTCTAATGCCACTC
 TGGACATCATATACTGTTTCCAACAGGCTGAGGTTTCCAGCGTTCTGACCATCTGACCAGTTGCGTCC
 GGCTGATGTCGGTGTCTCCGAGTTTCAGTCAGAAGTGTGGCTACAAAAATGATAAGCAGATGTC
 CTACGGATTCTCTTCTCCTTATCTGAGCTCTTACCAGAGGCTAAATATGATGCATTCTTGTAAACC
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 ATGCTTCGAAAGAAAATGGAGTTAACGTGATAAGTGGACCAATCTCGACTATGACTATGATGGCTTACA
 TGACACAGAAGACAAAATAAAACAGTACGTGGAAGGCAGTCCATTCCTGTTCCAACCTACTACTACAGC
 ATCATACCAGCTGTCTGGATTTCACTCAGCCTGCCGACAAGTGTGACGGCCCTCTCTGTGCTCCTCT
 TCATCCTGCCTCACCGGCTGACAAAGGAGAGCTGCAATAGCTCAGAGGACGAATCAAATGGGTAGA
 AGAACTCATGAAGATGCACACAGCTAGGGTGCCTGACATTGAACATCTACCAGCCTGGACTTCTCCGA
 AAGACCAGCCGACGTACCCAGAATCCTGACACTCAAGACATACCTGCATACATATGAGAGCGAGATT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG205377 representing NM_001040092
Red=Cloning site Green=Tags(s)

MARRSSFQSCQIISLFTFAVGVNICLGFTAHRKRAEGWEEGPPTVLSDSPWTNISGSCKGRCFELQEAG
PPDCRCDNLCKSYTSCCHDFDELCLKTARGWECTKDRCGEVRNEENACHCEDCLARGDCCTNYQVVCKG
ESHWVDDDCCEEIKAAECPAGFVRPPLIIFSVDFRASVMKKGSKVMPNIEKLRSCGTHSPYMRPVYPTKT
FPNLYTLATGLYPESHGIVGNSMYDPVFDATFHLLRGREKFNHRWWGGQPLWITATKQGVKAGTFFWSVVI
PHERRILTILQWLTPDHERPSVYAFYSEQPDFSGHKYGPFGPEMTNPLREIDKIVGQLMDGLKQLKLR
CVNVIFVGDHGMEDVTCDRTEFLSNYLTNVDDITLVPGLGRIRSKFSNNAKYDPKAIIANLTCKKPDQH
FKPYLKQHLPKRLHYANNRRIEDIHLLVERRWHVARKPLDVYKKPSGKCFQGDHGFNDKVNMQTVFVG
YGPTFKYKTKVPPFENIELYNVMCDLLGLKPAPNNGTHGSLNHLRLTNTFRPTMPEEVTRPNYPGIMYLQ
SDFDLGCTCDDKVEPKNLDELNKRHLTKGSTEERHLLYGRPAVLYRTRYDILYHTDFESGYSEIFLMPL
WTSYTVSKQAEVSSVPDHLTSCVRPDVRVSPFSQNCLAYKNDKQMSYGFLFPPYLSSSPEAKYDAFLVT
NMVPMYPAFKRVWNYFQRVLVKKYASERNGVNVISGPIFDYDYDGLHDTEDKIKQYVEGSSIPVPTHYYS
IITSCLDFTQPADKCDGPLSVSSFILPHRPDNEESCNSSEDESKWVEELMKMHTARVRDIEHLTSLDFFR
KTSRSYPEILTLKTYLHTYESEI

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:


ACCN: NM_001040092

ORF Size: 2589 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001040092.1](#), [NP_001035181.1](#)

RefSeq Size: 3120 bp

RefSeq ORF: 2592 bp

Locus ID: 5168

UniProt ID: [Q13822](#)

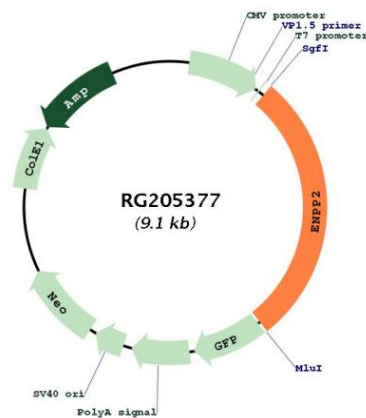
Cytogenetics: 8q24.12

Protein Families: Druggable Genome, Transcription Factors, Transmembrane

Protein Pathways: Ether lipid metabolism

Gene Summary: 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 RG205377