

Product datasheet for **SC116258**

ENPP2 (NM_006209) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ENPP2 (NM_006209) Human Untagged Clone
Tag:	Tag Free
Symbol:	ENPP2
Synonyms:	ATX; ATX-X; AUTOTAXIN; LysoPLD; NPP2; PD-IALPHA; PDNP2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_006209, the custom clone sequence may differ by one or more nucleotides

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ATGGCAAGGAGGAGCTCGTTCCAGTCGTGTCAGATAATATCCCTGTTCACTTTTGCCGTTGGAGTCAATA
TCTGCTTAGGATTCACTGCACATCGAATTAAGAGAGCAGAAGGATGGGAGGAAGGTCCTCCTACAGTGT
ATCAGACTCCCCCTGGACCAACATCTCCGGATCTTGCAAGGGCAGGTGCTTTGAACCTCAAGAGGCTGGA
CCTCCTGATTGTCGCTGTGACAACCTGTGTAAGAGCTATACCAGTTGCTGCCATGACTTTGATGAGCTGT
GTTTGAAGACAGCCCGTGGCTGGGAGTGTACTAAGGACAGATGTGGAGAAGTCAGAAATGAAGAAAATGC
CTGTCACTGCTCAGAGGACTGCTTGCCAGGGGAGACTGCTGTACCAATTACCAAGTGGTTTGCAAAGGA
GAGTCGCATTGGGTTGATGATGACTGTGAGGAAAATAAGGCCGAGAAATGCCCTGCAGGGTTTGTTCGCC
CTCCATTAATCATCTTCTCCGTGGATGGCTTCCGTGCATCATAACATGAAGAAAGGCAGCAAAGTCATGCC
TAATATTGAAAACTAAGGTCTTGTGGCACACACTCTCCCTACATGAGGCCGGTGTACCCAATAAAACC
TTTCTAACTTATACACTTTGGCCACTGGGCTATATCCAGAATCATGGAATTGTTGGCAATCAATGT
ATGATCCTGTATTTGATGCCACTTTTCATCTGCGAGGGCGAGAGAAATTAATCATAGATGGTGGGAGG
TCAACCGCTATGGATTACAGCCCAAGCAAGGGGTGAAAGCTGGAACATTCTTTTGGTCTGTTGTCATC
CCTCACGAGCGGAGAATTAACCATATTGCAAGTGGCTCACCCCTGCCAGATCATGAGAGGCCCTCGGTCT
ATGCCTTCTATTCTGAGCAACCTGATTTCTCTGGACACAAATATGGCCCTTTCCGGCCTGAGGAGAGTAG
TTATGGCTCACCTTTTACTCCGGCTAAGAGACCTAAGAGGAAAAGTTGCCCTAAGAGGAGACAGGAAAGA
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AGGACAAAATGACAAATCCTCTGAGGGAAAATCGACAAAATGTGGGGCAATTAATGGATGGACTGAAACA
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AAAACCAGATCAGCACTTTAAGCCTTACTTGAACAGCACCTTCCCAAACGTTTGCATATGCCAACAC
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ATAAGAAACCATCAGGAAAATGCTTTTTCCAGGGAGACCAGGATTTGATAACAAGGTCAACAGCATGCA
GACTGTTTTGTAGGTTATGGCTCAACATTTAAGTACAAGACTAAAGTGCCTCCATTTGAAAACATTGAA
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ATCATCTCCTGCGCACTAATACCTTCAGGCCAACCATGCCAGAGGAAGTTACCAGACCCAATTATCCAGG
GATTATGTACCTTCAGTCTGATTTTGACCTGGGCTGCACTTGTGATGATAAGGTAGAGCCAAAGAACAAG
TTGGATGAACTCAACAAACGGCTTCATACAAAAGGGTCTACAGAAGAGAGACACCTCCTCTATGGGCAC
CTGCAGTGCTTTATCGGACTAGATATGATATCTTATATCACACTGACTTTGAAAGTGGTTATAGTAAAT
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AACTCACTACTACAGCATCATACCAGCTGTCTGGATTTCACTCAGCCTGCCGACAAGTGTGACGGCCCT
CTCTCTGTGCTCCTTATCCTGCCTACCCGGCTGACAACGAGGAGAGCTGCAATAGCTCAGAGGACG
AATCAAAATGGGTAGAAGAACTCATGAAGATGCACACAGCTAGGGTGCCTGACATTGAACATCTCACCAG
CCTGGACTTCTCCGAAAGACCAGCCGAGCTACCCAGAATCCTGACACTCAAGACATACCTGCATACA
TATGAGAGCGAGATTTAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006209 unedited
 TTCACTATTTTGTAAATACGACTCACTATAGGGCGGCCCGATTTCGGCACGAGGGTGAAG
 GCAAAGAGACACGCTGCAAAAAGCTTTCCAAGAATCCTCGACATGGCAAGGAGGAGCTCGT
 TCCAGTCGTGTCAGATAATATCCCTGTTCACTTTTGGCCTTGGAGTCAATATCTGCTTAG
 GATTCAGTGCACATCGAATTAAGAGAGCAGAAGGATGGGAGGAAGTCTCTACAGTGC
 TATCAGACTCCCCCTGGACCAACATCTCCGGATCTTGAAGGGCAGGTGCTTTGAACTTC
 AAGAGGCTGGACCTCTGATTGTCGCTGTGACAACCTTGTAAGAGCTATACCAAGTGTG
 GCCATGACTTTGATGAGCTGTGTTTGAAGACAGCCCGTGGCTGGGAGTGTACTAAGGACA
 GATGTGGAGAAGTCAGAAATGAAGAAAATGCCTGTCACTGCTCAGAGGACTGCTTGGCCA
 GGGGAGACTGCTGTACCAATTACCAAGTGGTTTCAAAGGAGAGTTCGATTGGGTTGATG
 ATGACTGTGAGGAAATAAAGGCCGAGAAATGCCCTGCAGGGTTTGTTCGCCCTCCATTAA
 TCATCTTCTCCGTGGATGGCTTCCGTGCATCATAATGAAGAAAGGCAGCAAAGTCATGC
 CTAATATTGAAAACTAAGTCTTGTGGCACACACTCTCCCTACATGAGGCCGGTGTACC
 CAACTAAAACCTTCTCAACTTATACACTNTGGCCACTGNGCTATATCCAGAATCACATG
 GAATTGTTGGCAATTAATGTATGATCCTGTATTTGATGCCACTNTTCATCTGCGAGGGCG
 AGAGAAATTTATCATAGATGGTGGNNGAGTCAACCGCTNATGGATACAGCCACCAAGCAA
 GGGGTGAAGCTGGAACATNCTTTTGGTCTGTTGTCATCCCTCACGACG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006209 unedited
 CTTGGCCGCGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTAAAACTGAAGGGGGGATTTATTATGTTAAAAATGGGTTTATA
 AGGCTTAAATATATCTGGCATAGTTAACAGTTAACAGCAAATAAGGGCAACTTTACAAAA
 TCAGGGTTTCCATACAGTACAGGACTAAATGGGGCAACTGGGCATTGAAAAATTAATATT
 TCCTCAATGCAAAATATCAAAATTTGCAGCCCTTTTAAAAGCTTCCACTAAAACTCAAGC
 TGCAGTATTTATTACAAGCTTTACTCAAAACACAGGGCTCCCTAAATCAAGCTTTAAAAA
 AAAACAGGGGAGTCATTCAGGCATAATATGTCAAATTTGGCACAGGATTAATACTAAC
 TTTTTAAGGGCCGGTTTCAAATTAATAACTCCAAAACCATTTTAAAATTTCCACCCC
 GTTGATAAAACTGCTGAAAATGCTCAAAAAGTTAAACCTCGCTCTCATATGTATGCAG
 GAATGCCCTTGAGTGTCAAGATTTCTGGGAAGCTGCGGTTGGTCTTTCGGAAAAAGCCCAG
 GCTGGGGAGATGTTCAATGTACAGCCCGGAGCTGGGGGCATCTCATGAGTTCTTCTAC
 CCATTTTGATTCCGCTCTGAGCTATTGCAGCTTCTCTTGTGTTTTAGGCCCGTGAGGCAGG
 ATGAAGGTAGCCCAAAAAAGGGCCGTAACACTTGTGCGCAGGCTGAGTGAATCCAAAC
 AGCTGCGGATGATGTTGAAAAAAGGAGTTGAAAAAGGAAAGAACTGCCCTCCACCAACC
 GTTATATTTTGCCTTCTGCGCCAGGAACCCTCAATACCAAGCGAAAAATTGTCCCCTTAC
 ACGTTACCCCTTTCTTCAAACAATTTTTACAATACCTTTGAAAAATTCGACCCCTTG
 GACCACT

Restriction Sites:

NotI-NotI

ACCN:

NM_006209

Insert Size:

3570 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:	NM_006209.2 , NP_006200.2
RefSeq Size:	3231 bp
RefSeq ORF:	2748 bp
Locus ID:	5168
UniProt ID:	Q13822
Cytogenetics:	8q24.12
Domains:	SO, Endonuclease, Phosphodiesterase
Protein Families:	Druggable Genome, Transcription Factors, Transmembrane
Protein Pathways:	Ether lipid metabolism
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1, also known as alpha). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>