

Product datasheet for **SC100342**

ENPP6 (NM_153343) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ENPP6 (NM_153343) Human Untagged Clone
Tag:	Tag Free
Symbol:	ENPP6
Synonyms:	NPP6
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC100342 sequence for NM_153343 edited (data generated by NextGen Sequencing)

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ATGGCAGTGAAGCTTGGGACCCTCCTGCTGGCCCTTGCCTGGGCTGGCCAGCCAGCC
TCTGCCCGCCGGAAGCTGCTGGTGTTCCTGCTGGATGGTTTTCGCTCAGACTACATCAGT
GATGAGGCGCTGGAGTCATTGCCTGGTTCAAAGAGATTGTGAGCAGGGGAGTAAAAGTG
GATTACTTGACTCCAGACTTCCCTAGTCTCTCGTATCCCAATTATTATACCCTAATGACT
GGCCGCCATTGTGAAGTCCATCAGATGATCGGGAACACATGTGGGACCCACCACCAAC
AAGTCCTTTGACATTGGCGTCAACAAAGACAGCCTAATGCCTCTCTGGTGAATGGATCA
GAACCTCTGTGGGTCACTCTGACCAAGGCCAAAAGGAAGGTCTACATGTACTACTGGCCA
GGCTGTGAGGTTGAGATTCTGGGTGTCAGACCCACCTACTGCCTAGAATATAAAAATGTC
CCAACGGATATCAATTTTGCCAATGCAGTCAGCGATGCTCTTGACTCCTTCAAGAGTGGC
CGGGCCGACCTGGCAGCCATATAACCATGAGCGCATTGACGTGGAAGGCCACCACTACGGG
CCTGCATCTCCGAGAGGAAAGATGCCCTCAAGGCTGTAGACTGTCTGAAGTACATG
ACCAAGTGGATCCAGGAGCGGGCCTGCAGGACCCTGAACGTCATTATTTCTCGGAT
CACGGAATGACCGACATTTTCTGGATGGACAAAGTGATTGAGCTGAATAAGTACATCAGC
CTGAATGACCTGCAGCAAGTGAAGGACCGGGCCTGTTGTGAGCCTTTGGCCGGCCCT
GGGAAACTCTGAGATATAACAAACTGAGCACAGTGAACACATGACTGTCTACGAG
AAAGAAGCCATCCAAGCAGGTTCTATTACAAGAAAGGAAAGTTGTCTCTCCTTTGACT
TTAGTGGCTGATGAAGGCTGGTTCATAACTGAGAATCGAGAGATGCTTCCGTTTTGGATG
AACAGCACCGGCAGGCGGGAAGGTTGGCAGCGTGGATGGCACGGCTACGACAACGAGTCT
ATGGACATGCGGGGCATCTTCTGGCCTTCGGACCTGATTTCAAATCCAACTTCAGAGCT
GCTCCTATCAGGTCGGTGGACGTCTACAATGTCATGTGCAATGTGGTGGGCATCACCCCG
CTGCCCAACAACGGATCCTGGTCCAGGGTGTGTCATGCTGAAGGGCCGCGCCGGCCT
GCCCGCCTGTCTGGCCAGCCACTGTGCCCTGGCACTGATTCTTCTCTCTGCTTGCA
TAA
  
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Clone variation with respect to NM_153343.3
1255 a=>g

5' Read Nucleotide Sequence: >OriGene 5' read for NM_153343 unedited

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NNGGGTACATATTAGTATACGACTCACTATAGGCGGCCGCGAAATTCGCACGAGGGCTG
TGCCAGCCGGGCTCTGGCAGGCTCCTGGCAGCATGGCAGTGAAGCTTGGGACCCTCCTGC
TGGCCCTTGGCCCTGGGCTGGCCAGCCAGCCTCTGCCCGCCGGAAGCTGCTGGTGTTC
TGCTGGATGGTTTTCGCTCAGACTACATCAGTATGAGGCGCTGGAGTCATTGCCTGGTT
TCAAAGAGATTGTGAGCAGGGGAGTAAAAGTGGATTACTTGACTCCAGACTTCCCTAGTC
TCTCGTATCCCAATTATTATACCCTAATGACTGGCCGCCATTGTGAAGTCCATCAGATGA
TCGGGAACACTACATGTGGGACCCACCACCAACAAGTCTTTGACATTGGCGTCAACAAAG
ACAGCCTAATGCCTCTCTGGTGAATGGATCAGAACCTCTGTGGGTCACTCTGACCAAGG
CCAAAAGGAAGGTCTACATGTACTACTGGCCAGGCTGTGAGGTTGAGATTCTGGGTGCA
GACCCACCTACTGCCTAGAATATAAAAATGTCCAACGGATATCAATTTTGCCAATGCAG
TCAGCGATGCTCTTGACTCCTTCAAGAGTGGCCGGGCGACCTGGCAGCCATATAACCATG
AGCGCATTGACGTGGAAGGCCACCACTACGGGCTGCATCTCCGAGAGGAAAGATGCC
TCAAGGCTGTAGACTGTCTGAAGTACATGACCAAGTGGATCCAGGAGCCGNGCCTG
CTAGAACCCTGAACGTCATTATTTTCTGGNATCACCGAATGACCGACTTTCTGTA
TGGACAAAGTATTGAGCTGAATAAGTACATCAACCTGAATGACCTGCCACAAGTAAAG
ACCGCGGCCCTGTTGTGAACC
  
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_153343 unedited GTCCAACATATGNNACCGCGCCGCATNCNANGATCGNATTTTTTTTTTTTTTTTTTGCAT TATTTAAGTAAAAAGCTTATTTTTTCCCTCAGTGTCTGAATCTTCTTATTGTTTACC AGGATTCATGATTCCTTTTGTAACTTGTCTCAGTCATTTATTGAGTTGAGTAATTACAC TTTGTCAGACAAATATCTAAAGTTTTATTATGTAACCTGCAGATTTTCAGGACGAGTGAA GGAGGAAAATGGCAGAAGAGTTCAGGAAAGACAAAAATGCAAGACTGTGTCTAAGTTTAT GCCTCTTTGAGTTTGTGATCCAATTTAATTTAATCATTTGAGTATCTCTTAGGGATT CTTCTCCACAGTGGAGGAAAGTGGGCTCTACTGAATTCATTGGAACACCGTCCTTTAAG GAGAAAGAAACTTTGAACAATAGACGTCTTTTTCAACAACACTACTGCCAATGTTTTGAAAG TTGTCATTTGTTTTGAGCTAGATAACAAAGGCTGAAGAGTTGCCTTCTTTCCAATTGATC CGATGGTTTACTGGCGCTTTTAAAACACATTACATAAATCTTTAGAAATCTTTTGTGAAG GTAAATTCAGTATTTTAAAGCAGTATCCTTTGCTCTCATGATTCATGGCATGGAGACAG CACCCAGCTTTCTGAATCAGGTGAACGTTGATATTCAGTTTTCAAGGTAACACACCATA TAAGGCCATCCATCGTCTGAGGAGACCTGATATATGCCTTTTCTGNACAAAGTCTCAC TTGCAGATGTACCTCAATTAGTCAAACCTTTTTTTCTTTCTTTTTTTGGNGGGGTGGA GGAAATGGGGTCTNCTCTGTTGCCACAGCTGGAATGCAATGGTGTGATCAAAGCTCACT GCAGCCTT
Restriction Sites:	NotI-NotI
ACCN:	NM_153343
Insert Size:	4200 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_153343.2 , NP_699174.1
RefSeq Size:	3856 bp
RefSeq ORF:	1323 bp
Locus ID:	133121
UniProt ID:	Q6UWR7
Cytogenetics:	4q35.1
Domains:	Phosphodiester
Protein Families:	Secreted Protein

Protein Pathways: Ether lipid metabolism

Gene Summary: Choline-specific glycerophosphodiester phosphodiesterase. The preferred substrate may be lysosphingomyelin (By similarity). Hydrolyzes lysophosphatidylcholine (LPC) to form monoacylglycerol and phosphorylcholine but not lysophosphatidic acid, showing it has a lysophospholipase C activity. Has a preference for LPC with short (12:0 and 14:0) or polyunsaturated (18:2 and 20:4) fatty acids. Also hydrolyzes glycerophosphorylcholine and sphingosylphosphorylcholine efficiently. Hydrolyzes the classical substrate for phospholipase C, p-nitrophenyl phosphorylcholine in vitro, while it does not hydrolyze the classical nucleotide phosphodiesterase substrate, p-nitrophenyl thymidine 5'-monophosphate. Does not hydrolyze diacyl phospholipids such as phosphatidylethanolamine, phosphatidylinositol, phosphatidylserine, phosphatidylglycerol and phosphatidic acid.[UniProtKB/Swiss-Prot Function]