

Product datasheet for RN215582

Enpp6 (NM_001107311) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Enpp6 (NM_001107311) Rat Untagged Clone
Tag: Tag Free
Symbol: Enpp6
Synonyms: E-NPP 6
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN215582 representing NM_001107311
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCAGGAAAGCTCTGGACCTCCTGCTGCTGTTGGGTTTCAGCTGGGTTGGCCAGCTTCTGCCACC
 GGAAGCTCCTGGTGTGCTCCTGGATGGTTTTTCGCTCAGACTACATCAGTGAGGATGCCCTGGCATCCTT
 GCCTGGTTTCAGAGAGATCGTGAACAGAGGAGTCAAAGTGGATTACTTGACTCCAGACTCCCCAGCCTC
 TCCTATCCCAATTACTACACCCTCATGACCGGCCGCACTGTGAGGTCCACCAGATGATCGGGAACCTACA
 TGTGGGATCCCAGAACCAACAAGTCATTGACATCGGGGTCAACCGAGACAGCCTGATGCCCTCTGGTG
 GAATGGGTGAGAACCTTGTGGATCACTCTGATGAAAGCCAGGAGGAAGGTCTACATGTACTACTGGCCA
 GGCTGTGAAGTTGAGATTCTTGGTGTGACAGCAACTTATTGCCTAGAATACAAAAATGTCCCAACAGACA
 TCAACTTTCGGAATGCAGTTAGCGATGCTCTCGACTCATTAAAGAGTGGCCGAGCGGATCTAGCAGCCAT
 ATACCAGAACGCATTGATGTAGAAGGCCATCACTATGGCCCTCATCACCTCAGAGAAAAGATGCTCTC
 AAAGCTGTGGACACTGCTCTGAAGTATATGACCCAGTGGATTGAGAACGAGGCTTGAGAAATGACCTAA
 ACGTCATCCTTTTCTCAGACCATGGGATGACTGACATCTTCTGGATGGATAAAGTGAAGTTGAGCAA
 ATACATCAGCCTGGATGACCTGCAGCAAGTGAAGGACCAAGGGCCGTTATATATCACAAACTCCGCACC
 GTAGAACACATGACAGTGTATGAGAAAAGCAATACCCAACAGTTCTATTACAAGAAAAGGAAAATTTG
 TCTCTCCTTTGACCTTGGTGGCTGATGAAGGGTGGTTCATAGCAGAGAGTCGAGAGGCGCTTCCGTTTTG
 GATGAACAGCACCAGCGCAAGCGAAGGCTGGCAGCAGGATGGCATGGATATGACAACGAGCTCATGGAC
 ATGAGAGGGATCTTCTGGCCTTCGGACCTGCTAT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAAGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001107311



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Insert Size:	1089 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:	<u>NM_001107311.1, NP_001100781.1</u>
RefSeq Size:	1729 bp
RefSeq ORF:	1089 bp
Locus ID:	306460
Cytogenetics:	16q11
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 (By similarity). [UniProtKB/Swiss-Prot Function]