

Product datasheet for **RR215582**

Enpp6 (NM_001107311) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Enpp6 (NM_001107311) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Enpp6
Synonyms: E-NPP 6
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR215582 representing NM_001107311
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCAGGAAAGCTCTGGACCTCCTGCTGCTGTTGGGTTTCAGCTGGGTTGGCCAGCTTCTGCCACC
GGAAGCTCCTGGTGTGCTCCTGGATGGTTTTTCGCTCAGACTACATCAGTGAGGATGCCCTGGCATCCTT
GCCTGGTTTCAGAGAGATCGTGAACAGAGGAGTCAAAGTGGATTACTTGACTCCAGACTCCCCAGCCTC
TCCTATCCCAATTACTACACCCTCATGACCGGCCGCCACTGTGAGGTCCACCAGATGATCGGGAACATA
TGTGGGATCCCAGAACCAACAAGTCATTCGACATCGGGGTCAACCGAGACAGCCTGATGCCCTCTGGTG
GAATGGGTGAGAACCCTTGTGGATCACTCTGATGAAAGCCAGGAGGAAGGTCTACATGTACTACTGGCCA
GGCTGTGAAGTTGAGATTCTTGGTGTGACAGCAACTTATTGCCTAGAATACAAAAATGTCCCAACAGACA
TCAACTTTGCGAATGCAGTTAGCGATGCTCTCGACTCATTAAAGAGTGGCCGAGCGGATCTAGCAGCCAT
ATACCAGAACGCATTGATGTAGAAGGCCATCACTATGGCCCTCATCACCTCAGAGAAAAGATGCTCTC
AAAGCTGTGGACACTGTCCTGAAGTATATGACCCAGTGGATTGAGAACGAGGCTTGAGAATGACCTAA
ACGTCATCCTTTTCTCAGACCATGGGATGACTGACATCTTGGATGGATAAAGTGATTGAGTTGAGCAA
ATACATCAGCCTGGATGACCTGCAGCAAGTGAAGGACCAAGGGCCGTTATATATCACAAACTCCGCACC
GTAGAACACATGACAGTGTATGAGAAAAGCAATACCCAACAGTTCTATTACAAGAAAAGGAAAATTTG
TCTCTCCTTTGACCTTGGTGGCTGATGAAGGTGGTTCATAGCAGAGAGTCGAGAGGCGCTTCCGTTTTG
GATGAACAGCACCAGCGAAGCGAAGGCTGGCAGCAGGATGGCATGGATATGACAACGAGCTCATGGAC
ATGAGAGGGATCTTCTGGCCTTCGGACCTGCTATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR215582 representing NM_001107311
 Red=Cloning site Green=Tags(s)

MAGKLWTFLLLFGFSWVWPASAHKLLVLLLDGFRSDYISEDALASLPGFREIVNRGVKVDYLTPDFPSL
 SYPNYYTLMTGRHCEVHQMIGNYMWDPRTNKSFDIGVNRDSLMLPLWNGSEPLWITLMKARRKVMYWYWP
 GCEVEILGVRPTYCLEYKNVPTDINFANAVSDALDSLKSGRADLAAIYHERIDVEGHYGPSSPQRKDAL
 KAVDTVLKYMTQWIQERGLQNDLNVILFSDHGMTDIFWMDKVIELSKYISLDDLQQVKDQGPVIYHKLRT
 VEHMTVYEKEAIPNRFYKKGKFSPLTLVADEGWFI AESREALPFWMNSTGKREGWQHGWGHYDNLMD
 MRGIFLAFGPAI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

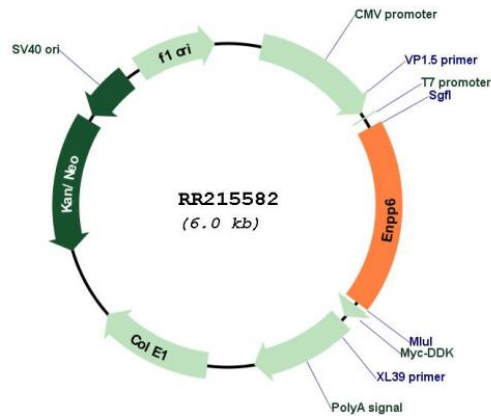
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001107311

ORF Size:	1086 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:	<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_001107311.1 , NP_001100781.1
RefSeq Size:	1729 bp
RefSeq ORF:	1089 bp
Locus ID:	306460
Cytogenetics:	16q11
MW:	42.1 kDa
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]