

Product datasheet for **RR205492**

Enpp7 (NM_001012466) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Enpp7 (NM_001012466) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Enpp7
Synonyms: E-NPP 7
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR205492 representing NM_001012466
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGGCACTCAGCTGTCCTCTCTGTGGCTCTAGTCATCCTCCAGCTTGTGTGACTGGGGTCTCTG
TCCAAAGGCAGCAGCAGCATAAGCTTCTCCTTGTATCCTTCGATGGCTCCGCTGGAACATGACCAAGA
CGTGAAACCCCTAACCTGGACTCCATGGCTCAGGAAGGAGTAAAAGCTCGCTACATGACTCCTGCCTT
GTACCATGACCGCCCTGCCACTTACACTGGTCACCGCAAATACATCGAGAACCATGGGGTGGTCC
ACAACATGTTCTATAACACCACCAACAAGGTGAGGCTGCCCTACCATGCCACGCTTGGGATCCAGAGGTG
GTGGGATAACGGCAGCATACCCATCTGGATCACAGCCAGAGGCAGGGCTTAAAAACCGGCTCCTTCTTC
TACCCTGGTGGGAACGTACCTACCAAGGAGAGGCCGTGACGATGAGCCGGAAGGAAGGCGTCTTACACA
ATTACAAAACGAGACAGAGTGGAGGGCAAATGTGGACACAGTGATGAAGTGGTTCACGGAGGAGGATGT
GTCCCTGGTCACTCTCTACTTTGGGGAGCCAGACTCCACTGGCCACAAGTATGGCCCTGAGTCCCAGGAG
AGGAAGGACATGGTGAACAGGTAGACAGGACGGTGGCTACCTCCGGGACAGCATCAAGCGCCACCACC
TCACAGACAGCCTAACCTGATAATCACCTCGGACCAGGCATGACGACCGTCAACAAGAAGGCCAGCGA
CTTGGTCGAGTTCCACAAGTTCCCAACTTCACCTTCAGGGACATTGAGTTCGAACTCTTGACTACGGG
CCCAACGGGATGCTGATCCCAAGGAAGGATGCTGGAGAAGGTATACAGTGTCTCAAGGATGCCACC
CCAGGCTGCATGTGTACAAGAAGGAGGACTTCCGGAAGACCTTTCCTACGCAACAACCCAGGATCAC
ATCCCTGCTCATGTACAGTGACCTCGGCTATGTCAATTCATGGGAGAGTGAACGTCAGTTCACAGTGGT
GAGCATGGTTTCGACAACCAAGACATGGACATGAAGACCATCTCCGGGCTGTGGTCCCAGCTTCAAGG
CAGGCTTGAAGTGGAGCCCTTCGAGAGCGTCCATGTGTACGAGCTCATGTGCAGCTGCTGGCATTGT
GCCCGAGCCCAACGATGGGCATCCAGGCGTCCTGCAACCCATGCTCCGGTCAGGATCTCCGCTCAGCAGG
CAGCACCACTTGGTGGTGGTGTGATGGGGATCCTAACGGTCTGGCCAAGGTCGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RR205492 representing NM_001012466
 Red=Cloning site Green=Tags(s)

MGHSAVLLSVALVILPACVTGGPVQRQQHKLLLVSFDFGRWNYDQDVETPNLDSMAQEGVKARYMTPAF
 VTMTSPCHFTLVTKYIENHGCVHNMFYNTTNKVRLPYHATLGIQRWWDNGSIPWIWTAQRQGLKTSFF
 YPGGNVTYQGEAVTMSRKEGVLHNYKNETEWANVDVTMKWFTTEEDVSLVTLYFGEPDSTGHKYGPESQE
 RKDMVKQVDRTVGYLRDSIKRHHLTDSLNIITSDHGMTTVNKKASDLVEFHKFPNFTFRDIEFELLDYG
 PNGMLIPKEGMLKVVSVLKDAHPRHLHYVYKEDFPKTFHYANNPRITSLLMYSDLGYVIHGRVNVQFNSG
 EHGFDNQMDMKTIFRAVGPSFKAGLEVEPFESVHVYELMCQLLGIVPEPNDGHPGLVQPLMRSGSPLSR
 QHHLVVVLMGILTGLAKVV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

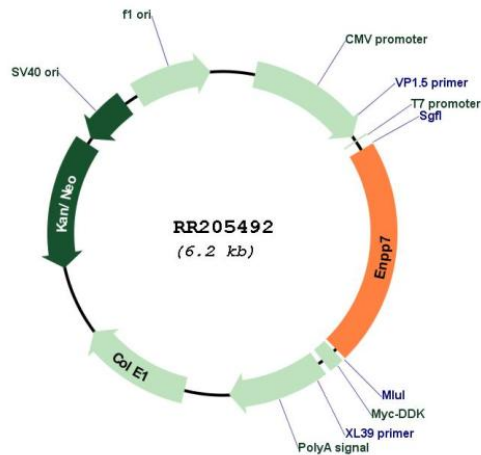
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001012466

ORF Size:	1317 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_001012466.1 , NP_001012484.1
RefSeq Size:	1320 bp
RefSeq ORF:	1320 bp
Locus ID:	303729
UniProt ID:	Q5EZ72
Cytogenetics:	10q32.3
MW:	49.8 kDa
Gene Summary:	Converts sphingomyelin to ceramide and phosphocholine (PubMed:15708357). Can also cleave phosphocholine from palmitoyl lyso-phosphatidylcholine. Does not have nucleotide pyrophosphatase activity (By similarity).[UniProtKB/Swiss-Prot Function]