

Product datasheet for **RC208143**

ENPP7 (NM_178543) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ENPP7 (NM_178543) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ENPP7
Synonyms:	ALK-SMase; E-NPP 7; NPP-7; NPP7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC208143 representing NM_178543
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGAGGCTGGCCGCTCCTCTACTGTGGCTCTGGCCACGCTCCTGGCTCCCGGGCCGGAGCACCGG
 TACAAAGTCAGGGCTCCCAGAACAAGCTGCTCCTGGTGTCTTCGACGGCTTCCGCTGGAACACGACCA
 GGATGTGGACACCCCAACCTGGACGCCATGGCCCGAGACGGGGTGAAGGCACGCTACATGACCCCGCC
 TTTGTCACCATGACCAGCCCTGCCACTTCACCCTGGTACCAGGCAAATATATCGAGAACCACGGGGTGG
 TTCACAACATGTACTACAACACCACCAGCAAGGTGAAGCTGCCCTACCACGCCACGCTGGGCATCCAGAG
 GTGGTGGGACAACGGCAGCGTGCCCATCTGGATCACAGCCAGAGGCAGGGCCTGAGGGCTGGCTCTTC
 TTCTACCCGGGCGGAACGTACCTACCAAGGGGTGGCTGTGACGCGGAGCCGAAAGAAGGCATCGCAC
 ACAACTACAAAAATGAGACGGAGTGGAGAGCGAACATCGACACAGTGATGGCGTGGTTCACAGAGGAGGA
 CCTGGATCTGGTCACACTCTACTTCGGGGAGCCGGACTCCACGGGCCACAGGTACGGCCCGAGTCCCCG
 GAGAGGAGGGAGATGGTGCAGCAGTGGACCGGACCGTGGGCTACCTCCGGGAGAGCATCGCGCGCAACC
 ACCTCACAGACCCCTCAACCTGATCATCACATCCGACCACGGCATGACGACCGTGGACAAACGGGCTGG
 CGACCTGGTTGAATCCACAAGTTCCTCAACTTCACCTTCGGGACATCGAGTTTGAGCTCCTGGACTAC
 GGACCAACCGGATGCTGCTCCCTAAAGAAGGGAGGCTGGAGAAGGTGTACGATGCCCTCAAGGACGCC
 ACCCAAGCTCCACGCTACAAGAAGGAGGCGTTCCTCCGAGGCCCTTCCACTACGCCAACAACCCAGGGT
 CACACCCTGTGATGTACAGCGACCTTGGCTACGTCATCCATGGGAGAATTAACGTCCAGTTCAACAAT
 GGGGAGCACGGCTTTGACAACAAGGACATGGACATGAAGACCATTTCCGCGCTGTGGCCCTAGCTTCA
 GGGCGGGCCTGGAGTGGAGCCCTTTGAGAGCGTCCACGTGTACGAGCTCATGTGCCGGCTGGGCAT
 CGTGCCCGAGGCCAACGATGGGCACCTAGCTACTCTGCTGCCCATGCTGCACACAGAATCTGCTCTTCCG
 CCTGATGGAAGGCTACTCTCCTGCCAAGGGAAGATCTGCTCTCCCGCCAGCAGCAGGCCCTCCTCG
 TGATGGGACTGCTGGGACCGTGATTCTTCTGTCTGAGGTCGCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208143 representing NM_178543
 Red=Cloning site Green=Tags(s)

MRGLAVLLTVALATLLAPGAGAPVQSQGSQNKLLLVSFDFRWNVDQDVTPLNDAMARDGVKARYMTPA
 FVTMTSPCHFTLVTKYIENHGTVHMYNTTSKVKLPYHATLGIQRWWDNGSVPWIWITAQRQGLRAGSF
 FYPGGNVTYQGVAVTRSRKEGIAHNYKNETEWRANIDTVMWFTEEDLDLVTLVYFGEPSDGHRYGPESP
 ERREMRVQVDRTVGYLRESIARNHLDRLNLIITSDHGMTTVDKRAGDLVEFHKFPNFTFRDIEFELLDY
 GPNGMLLPKEGRLEKVDALKDAHPKLVHYKKEAFPEAFHYANNPRVTPLLMYSGLGYVIHGRINVOFNN
 GEHGFNDKMDMKTIIFRAVGPSFRAGLEVEPFESVHVYELMCRLLGIVPEANDGHLATLLPMLHTESALP
 PDGRPTLLPKGRSALPPSSRPLLVMGLLGTIVILLSEVA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8101_e04.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_178543

ORF Size: 1374 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:

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_178543.3](#), [NP_848638.2](#)
RefSeq Size: 1877 bp

RefSeq ORF: 1377 bp

Locus ID: 339221

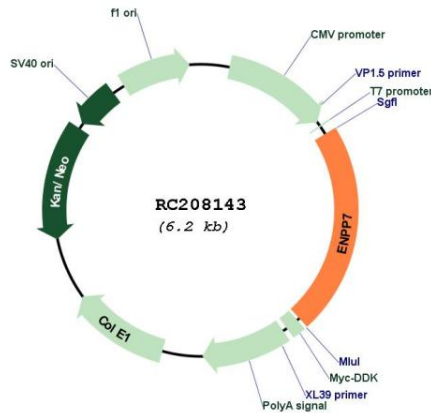
UniProt ID: [Q6UWV6](#)
Cytogenetics: 17q25.3

Protein Pathways: Metabolic pathways, Sphingolipid metabolism

MW: 51.5 kDa

Gene Summary: The protein encoded by this gene is an intestinal alkaline sphingomyelin phosphodiesterase that converts sphingomyelin to ceramide and phosphocholine. The encoded protein is anchored in the cell membrane, and it may function to protect the intestinal mucosa from inflammation and tumorigenesis. This protein is glycosylated and also exhibits lysophosphatidylcholine hydrolase activity. [provided by RefSeq, Oct 2016]

Product images:



Circular map for RC208143