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Product datasheet for RG208143

ENPP7 (NM_178543) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ENPP7 (NM_178543) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ENPP7
Synonyms:	ALK-SMase; E-NPP 7; NPP-7; NPP7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG208143 representing NM_178543
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGAGGCCTGGCCGTCCTCCTCACTGTGGCTCTGGCCACGCTCCTGGCTCCCGGGGCCGGAGCACCGG
TACAAAGTCAGGGCTCCCAGAACAAGCTGCTCCTGGTGTCCTTCGACGGCTTCCGCTGGAACTACGACCA
GGATGTGGACACCCCCAACCTGGACGCCATGGCCCGAGACGGGGTGAAGGCACGCTACATGACCCCCGCC
TTTGTCACCATGACCAGCCCCTGCCACTTCACCCTGGTCACCGGCAAATATATCGAGAACCACGGGGTGG
TTCACAACATGTACTACAACACCACCAGCAAGGTGAAGCTGCCCTACCACGCCACGCTGGGCATCCAGAG
GTGGTGGGACAACGGCAGCGTGCCCATCTGGATCACAGCCCAGAGGCAGGGCCTGAGGGCTGGCTCCTTC
TTCTACCCGGGCGGGAACGTCACCTACCAAGGGGTGGCTGTGACGCGGAGCCGGAAAGAAGGCATCGCAC
ACAACTACAAAAATGAGACGGAGTGGAGAGCGAACATCGACACAGTGATGGCGTGGTTCACAGAGGAGGA
CCTGGATCTGGTCACACTCTACTTCGGGGAGCCGGACTCCACGGGCCACAGGTACGGCCCCGAGTCCCCG
GAGAGGAGGGAGATGGTGCGGCAGGTGGACCGGACCGTGGGCTACCTCCGGGAGAGCATCGCGCGCAACC
ACCTCACAGACCGCCTCAACCTGATCATCACATCCGACCACGGCATGACGACCGTGGACAAACGGGCTGG
CGACCTGGTTGAATTCCACAAGTTCCCCAACTTCACCTTCCGGGACATCGAGTTTGAGCTCCTGGACTAC
GGACCAAACGGGATGCTGCTCCCTAAAGAAGGGAGGCTGGAGAAGGTGTACGATGCCCTCAAGGACGCCC
ACCCCAAGCTCCACGTCTACAAGAAGGAGGCGTTCCCCGAGGCCTTCCACTACGCCAACAACCCCAGGGT
CACACCCCTGCTGATGTACAGCGACCTTGGCTACGTCATCCATGGGAGAATTAACGTCCAGTTCAACAAT
GGGGAGCACGGCTTTGACAACAAGGACATGGACATGAAGACCATCTTCCGCGCTGTGGGCCCTAGCTTCA
GGGCGGGCCTGGAGGTGGAGCCCTTTGAGAGCGTCCACGTGTACGAGCTCATGTGCCGGCTGCTGGGCAT
CGTGCCCGAGGCCAACGATGGGCACCTAGCTACTCTGCTGCCCATGCTGCACACAGAATCTGCTCTTCCG
CCTGATGGAAGGCCTACTCTCCTGCCCAAGGGAAGATCTGCTCTCCCGCCCAGCAGCAGGCCCCTCCTCG
TGATGGGACTGCTGGGGACCGTGATTCTTCTGTCTGAGGTCGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

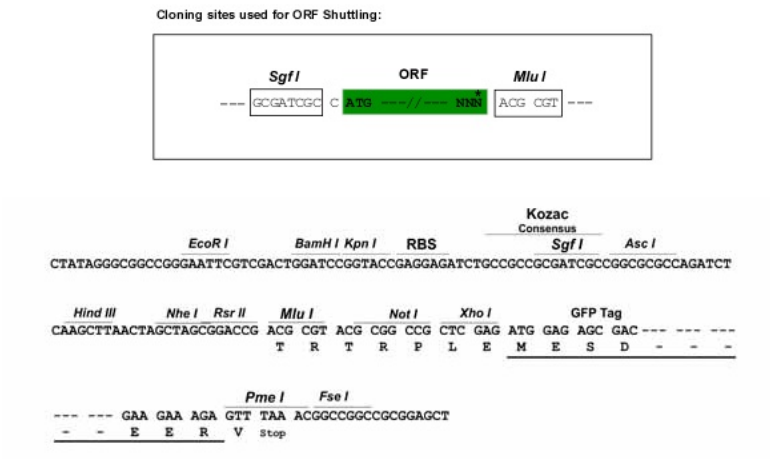
>RG208143 representing NM_178543
Red=Cloning site Green=Tags(s)

MRGLAVLLTVALATLLAPGAGAPVQSQGSQNKLLLVSFDGFRWNYDQDVDTPNLDAMARDGVKARYMTPA
FVTMTSPCHFTLVTGKYIENHGVVHNMYYNTTSKVKLPYHATLGIQRWWDNGSVPIWITAQRQGLRAGSF
FYPGGNVTYQGVAVTRSRKEGIAHNYKNETEWRANIDTVMAWFTEEDLDLVTLYFGEPDSTGHRYGPESP
ERREMVRQVDRTVGYLRESIARNHLTDRLNLIITSDHGMTTVDKRAGDLVEFHKFPNFTFRDIEFELLDY
GPNGMLLPKEGRLEKVYDALKDAHPKLHVYKKEAFPEAFHYANNPRVTPLLMYSDLGYVIHGRINVQFNN
GEHGFDNKDMDMKTIFRAVGPSFRAGLEVEPFESVHVYELMCRLLGIVPEANDGHLATLLPMLHTESALP
PDGRPTLLPKGRSALPPSSRPLLVMGLLGTVILLSEVA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

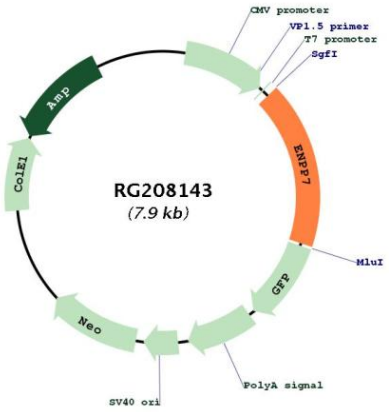


ACCN:	NM_178543
ORF Size:	1374 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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

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 RG208143