

Product datasheet for **RC214503**

PSAPL1 (NM_001085382) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSAPL1 (NM_001085382) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PSAPL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC214503 representing NM_001085382
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTGTGTGCCCTGCTCCTCTGCCAGCCTCTGGGGCCACCAGGGCCAGCCCACCTCAGGCCCC
 AGGAGTGTGCAAAGGGCTCCACGGTGTGGTGTGACGATCTGCAGACAGCTGCCAGGTGCGGGCTGTGGG
 GACTGCCAAGGGGCGTATGGAACAAACCCACCGCAAGTCTCTGCCCTGCGACGTATGCCAGGACATA
 GCAGCCGCGCTGGCAATGGGCTGAACCCTGACGCCACGGAGTCTGACATCCTGGCTTTGGTGATGAAGA
 CCTGTGAGTGGCTCCCCAGCCAGGAGTCTTACGCCGATGCAAGTGGATGGTGGATGCCACAGTTCGGC
 CATCCTGAGCATGCTCCGTGGGGCCCCGGACAGTCCCCGGCACAGGTGTGCACAGCGCTCAGCCTCTGT
 GAGCCGCTGCAGAGGCACCTGGCCACCCTGAGGCCACTCTCAAAGAGGACACCTTTGAGGCTGTGGCTC
 CGTTCATGGCCAATGGGCCCTTACCTTCCACCCCGCCAGGCGCTGAAGGAGCTCTGTGCCAAGACTG
 TGTACGGCAGGTCTCCGACTCCAGGAGGTGTCCGGTCCAATTGACCTTGCCGACTTGAACATCCAG
 GAGCAGTGTGAGTCTTGGGGCCTGGCCTGGCCGTCTCTGCAAGAACTACCTTCCAGTTTTTTGTCC
 CTGCTGACCAAGCACTGAGGCTTCTCCCCCGCAGGAGCTCTGCAGGAAGGGGGATTCTGTGAGGAGCT
 AGGGGCACCTGCCCGTTTGAAGTGTGGCCATGGACGGGGTCCCCTCCCTGGAGCTGGGGTTGCCA
 AGGAAACAGAGCGAGATGCAGATGAAGGCCGGTGTGACCTGTGAGGTGTGCATGAACGTGGTGCAGAAGC
 TGGACCACTGGCTCATGTCCAACAGCTCTGAGCTCATGATCACCCATGCCCTGGAGCGCTGTGCTCGGT
 AATGCCTGCCTCTATCACGAAGGAGTGCATCATTTGGTGGACACCTACAGCCCCCTTGGTGCAGCTT
 GTGGCCAAAATCACCCAGAGAAGGTGTGCAAGTTCATCCGTCTGTGTGGCAACCGGAGGCGGCCCGGG
 CAGTCCATGATGCCTATGCCATCGTCCCTCCAGAGTGGGACGCGGAGAACCAGGGCAGCTTCTGCAA
 TGGGTGCAAGAGGCTGCTCACGGTGTCTCCACAACTTGGAGAGCAAGAGCACCAAGCGAGACATCCTG
 GTGGCCTTCAAGGTGGCTGCAGCATCCTGCCGTGCCCTATATGATCCAGTGAAGCACTTCGTACCC
 AGTACGAGCCCGTCTCATTGAGAGTCTCAAGGACATGATGGACCCCGTGGCTGTGTGCAAGAAGGTGGG
 GGCCTGCCACGGCCCCAGGACCCACTGCTGGGACCCAGCAGTGTGCCCTGGGCCAAGCTTCTGGTGC
 AGGAGCCAGGAGGCCCAAGCTGTGCAACGCTGTGCAACACTGCCAGAAGCATGTATGGAAGAGATGC
 ACCTCCACGCTGGGAACACGCG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC214503 representing NM_001085382
 Red=Cloning site Green=Tags(s)

MLCALLLLPSLLGATRASPTSGPQECAGSTVWCQDLQTAARCGAVGYCQGA VWNKPTAKSLPCDVCQDI
 AAAAGNGLNPDATESDILALVMKTCEWLPSQESSAGCKWMVDAHSSAILSMLRGAPDSAPAQVCTALSLC
 EPLQRHLATLRPLSKEDTFEAVAPFMANGPLTFHPRQAPEGALCQDCVRQVSRQLQEAVRNLTLADLNIQ
 EQCESLGPGLAVLCKNYLFQFFVPADQALRLLPPQELCRKGGFCEELGAPARLTQVVAMDGVPSELGLP
 RKQSEMQMKAAGVTCEVCMNVVQKLDHWLMSNSSELMITHALERVCSYMPASITKECIILVDTYSPSLVQL
 VAKITPEKVCKFIRLCGNRRRARAVHDAYAIVPSPEWDAENQGSFCNGCKRLLTVSSHNLKSKTKRDIL
 VAFKGGCSILPLPYMIQCKHFVTQYEPVLIESLKDMMDPVAVCKKVGACHGPRPTLLGTDQCALGPSFWC
 RSQEAAKLCNAVQHCQKHVWKEMHLHAGEHA

SGP**TRRRLEQKLI**SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8030_g10.zip

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_001085382

ORF Size: 1563 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

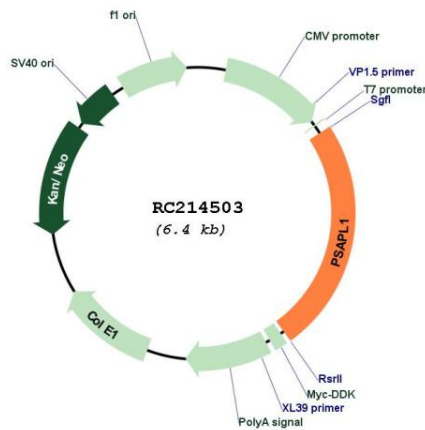
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_001085382.2](#)
RefSeq Size: 4700 bp
RefSeq ORF: 1566 bp
Locus ID: 768239
UniProt ID: [Q6NUJ1](#)
Cytogenetics: 4p16.1
Protein Pathways: Lysosome
MW: 56.4 kDa
Gene Summary:

This gene encodes a protein that is related to the glycoprotein prosaposin. Based on sequence similarity between the encoded protein and prosaposin, it is predicted that the encoded protein is a preproprotein that is proteolytically processed to generate multiple protein products. These predicted products include saposins A-like, B-like, C-like, and D-like, which may play a role in the lysosomal degradation of sphingolipids. [provided by RefSeq, Jul 2015]

Product images:



Circular map for RC214503