

Product datasheet for **MR227313**

Psap (NM_011179) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Psap (NM_011179) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Psap
Synonyms:	AI037048; SGP; SGP-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR227313 representing NM_011179
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTACGCCCTCGCCCTCTTCGCCAGCCTTCTGGCCACCCTCTGACCAGCCCTGTCCAAGACCCGAAGA
 CATGCTCTGGGGCTCAGCAGTCTGTGCAGAGATGTGAAGACGGCGGTGGACTGTGGGGCGTGAAGCA
 CTGCCAGCAGATGGTCTGGAGCAAGCCACAGCGAAATCCCTTCCTTGGACATATGCAAACTGTTGTC
 ACCGAAGCTGGAACTTCTGCTGAAAGATAATGCTACGCAGGAGGAGATCCTTACCTGGAGAAGACCT
 GTGAGTGGATTATGACTCCAGCCTGTCCGCTCGTGCAAGGAGGTGGTTGACTCTTACCTGCCTGTCAT
 CCTGGACATGATTAAGGGCGAGATGAGCAACCCTGGGAAAGTGTGCTCTGCGCTCAACCTCTGCCAGTCC
 CTTCAGGAGTACTTGGCCGAGCAAAACCAGAAACAGCTTGAGTCCAACAAGATCCCGAGGTGGACATGG
 CCCGTGTGGTTGCCCTTCATGTCCAACATCCCTCTCCTGCTGTACCCTCAGGATCACCCCGCAGCCA
 GCCCAACCTAAGGCTAACGAGGACGTCTGCCAGGACTGTATGAAGCTGGTGTCTGATGTCCAGACTGCT
 GTGAAGACCAACTCCAGCTTTATCCAGGGCTTCGTGGACCACGTGAAGGAGGATTGTGACCGCTTGGGGC
 CAGGCGTGTCTGACATATGCAAGAACTACGTGGACCAGTATCCGAGGTCTGTGTCCAGATGTTGATGCA
 CATGGATCAGCAACCAAGGAAATCTGTGTGCTGGCTGGCTTCTGTAATGAGGTCAAGAGAGTGCCAATG
 AAGACTCTGGTCCCTGCCACCGAGACCATTAAGAACATCCTCCCTGCCCTGGAGATGATGGACCCCTATG
 AGCAGAATCTGGTCCAGGCCACAATGTGATTTATGCCAGACCTGTCAGTTTGTGATGAATAAGTTTTTC
 TGAGCTGATTGTCAATAATGCCACTGAGGAGCTCCTAGTTAAAGGTTTGGACAACGCATGCCACTGCTC
 CCCGATCTGCCAGAACAAGTCCAGGAGGTGGTGGAAACATTTGGCCCTCCCTGTTGGACATCTTTA
 TCCATGAGGTAACCCCAAGCTCTCTGTGGGTGTGATCGGCCCTCTGTGCTGCCCGCCGAGTTGGTGA
 GGCACTTGAGCAGCCTGCGCCAGCCATTGTATCTGCACTGCTCAAAGAGCCACACCGCCAAAGCAGCCC
 GCACAGCCCAAGCAGTCCGCATTGCCCGCCATGTGCCTCCTCAGAAGAATGGTGGTCTGTGAGGTGT
 GCAAGAACTGGTCTCTATTTGGAACATAACCTGGAGAAAAACAGCACCAAGGAGGAAATCCTGGCCGC
 ACTTGAGAAGGGCTGCAGCTTCTGCCAGACCCTTACCAGAAGCAGTGGATGACTTTGTGGCTGAGTAT
 GAGCCCTTGCTATTGGAGATCCTCGTGGAAAGTGTGGATCCTGGATTTGTGTGCTCGAAAATTGGAGTTT
 GCCCTTCTGCCTATAAGCTGCTGCTGGAAACCGAGAAGTGTGCTGGGCCCTAGCTACTGGTGTGAGAA
 CATGGAGACTGCCGCCGATGCAATGCTGTCGATCATTGCAAACGCCATGTGTGGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR227313 representing NM_011179
 Red=Cloning site Green=Tags(s)

MYALALFASLLATALTSPVQDPKTCSSGSAVLRCRDVKTAVDCGAVKHCQQMVWSKPTAKSLPCDICKTVV
 TEAGNLLKDNATQEEILHYLEKTCEWIHDSSLSASCKEVVDSYLPVILDMIKGEMSNPGEVCSALNLCQS
 LQEYLAEQNKQLESNKIPEVDMARVVAFMFSNIPLLLYPQDHPRSQPQPKANEDVCQDCMKLVSDVQTA
 VKTNSFIQGFVDHVKEDCDRLGPGVSDICKNYVDQYSEVCVQMLMHMDQQPKEICVLAGFCNEVKRVP
 KTLVPATETIKNILPALEMMDPYEQLVQAHNVILCQTCQFVMNKFSELI VNNA TEELLVKGLSNACALL
 PDPARTKCQEVVGTGFP SLLDIF IHEVNPSSLCGVI GLCAARPELVEALEQPAPAIVSALLKEPTPPKQP
 AOPKQSALPAHVPPQKNGGFCEVCKKLVLYLEHNLEKNSTKEEILAALEKGSFLPDYPYQKQDDFVAEY
 EPLLEILVEVMDPGFVCSKIGVCP SAYKLLLGT EKC VWG P S Y W C Q N M E T A A R C N A V D H C K R H V W N

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_011179

ORF Size: 1668 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.

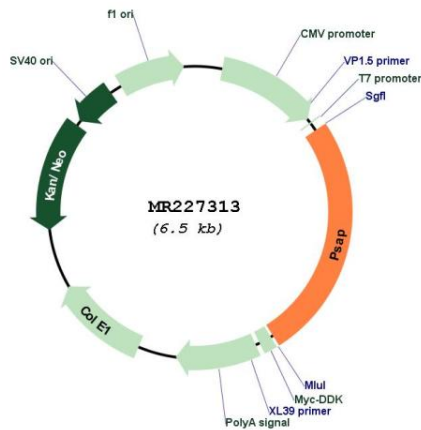
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_011179.1](#), [NM_011179.2](#), [NM_011179.3](#), [NP_035309.3](#)
RefSeq Size: 2676 bp
RefSeq ORF: 1674 bp
Locus ID: 19156
UniProt ID: [Q61207](#)
Cytogenetics: 10 30.02 cM
MW: 61.9 kDa

Gene Summary: This gene encodes a multifunctional glycoprotein that plays a role in the intracellular metabolism of various sphingolipids or secreted into the plasma, milk or cerebrospinal fluid. The encoded protein undergoes proteolytic processing to generate four different polypeptides known as saposin A, B, C or D, that are required for the hydrolysis of certain sphingolipids by lysosomal hydrolases. Alternately, the encoded protein is secreted into body fluids where it exhibits neurotrophic and myelinotrophic activities. A complete lack of the encoded protein is fatal to mice either at the neonatal stage or within the first month due to severe leukodystrophy and sphingolipid accumulation. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing to generate the mature saposins. [provided by RefSeq, Sep 2015]

Product images:



Circular map for MR227313