

Product datasheet for **MC218954**

Psap (NM_011179) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF: >MC218954 representing NM_011179
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTACGCCCTCGCCCTCTTCGCCAGCCTTCTGGCCACCCTCTGACCAGCCCTGTCCAAGACCCGAAGA
 CATGCTCTGGGGCTCAGCAGTCTGTGCAGAGATGTGAAGACGGCGGTGGACTGTGGGGCCGTGAAGCA
 CTGCCAGCAGATGGTCTGGAGCAAGCCACAGCGAAATCCCTTCCTTGGACATATGCAAAACTGTTGTC
 ACCGAAGCTGGAACTTCTGCTGAAAGATAATGCTACGCAGGAGGAGATCCTTCATTACCTGGAGAAGACCT
 GTGAGTGGATTATGACTCCAGCCTGTCCGGCTCGTGCAAGGAGGTGGTTGACTCTTACCTGCCTGTCAT
 CCTGGACATGATTAAGGGCGAGATGAGCAACCCTGGGGAAGTGTGCTCTGCGCTCAACCTCTGCCAGTCC
 CTTCAGGAGTACTTGGCCGAGCAAAACCAGAAACAGCTTGAGTCCAACAAGATCCCGGAGGTGGACATGG
 CCCGTGTGGTTGCCCCCTCATGTCCAACATCCCTCTCCTGCTGTACCCTCAGGATCACCCCGCAGCCA
 GCCCAACCTAAGGCTAACGAGGACGTCTGCCAGGACTGTATGAAGCTGGTGTCTGATGTCCAGACTGCT
 GTGAAGACCAACTCCAGCTTTATCCAGGGCTTCGTGGACCACGTGAAGGAGGATTGTGACCGCTTGGGGC
 CAGGCGTGTCTGACATATGCAAGAAGTACGTGGACCAGTATCCGAGGTCTGTGTCCAGATGTTGATGCA
 CATGCAGGATCAGCAACCAAGGAAATCTGTGTCTGGCTGGCTTCTGTAATGAGGTCAAGAGAGTGCCA
 ATGAAGACTCTGGTCCCTGCCACCGAGACCATTAAAGAATCCTCCCTGCCCTGGAGATGATGGACCCCT
 ATGAGCAGAATCTGGTCCAGGCCACAATGTGATTTTATGCCAGACCTGTGAGTTTGTGATGAATAAGTT
 TTCTGAGCTGATTGTCAATAATGCCACTGAGGAGCTCCTAGTTAAAGTTTGAGCAACGCATGCCACTG
 CTCGCCGATCCTGCCAGAACCAAGTCCAGGAGGTGGTGGGAACATTTGGCCCTCCCTGTTGGACATCT
 TTATCCATGAGGTAACCCAGCTCTCTGTGCGGTGTGATCGGCCTCTGTGCTGCCCGCCGGAGTTGGT
 GGAGGCATTTGAGCAGCCTGCGCCAGCCATTGTATCTGCACTGCTCAAAGAGCCACACCGCCAAAGCAG
 CCCGCACAGCCAAAGCAGTCGGCATTGCCCGCCATGTGCCTCCTCAGAAGAATGGTGGTTCTGTGAGG
 TGTGCAAGAACTGGTCTCTATTTGGAACATAACCTGGAGAAAAACAGCACCAAGGAGGAAATCCTGGC
 CGCACTTGAGAAGGGCTGCAGCTTCTGCCAGACCCTTACCAGAAGCAGTGCATGACTTTGTGGCTGAG
 TATGAGCCCTTGCTATTGGAGATCCTCGTGAAGTGTGATGGATCCTGGATTTGTGTCTCGAAAATTGGAG
 TTTGCCCTTCTGCCTATAAGCTGCTGCTGGGAACCGAGAAGTGTGTCTGGGGCCCTAGCTACTGGTGTCA
 GAACATGGAGACTGCCGCCGATGCAATGCTGTGATCATTGCAAACGCCATGTGTGGAAC**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_011179
Insert Size: 1674 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](#)

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_011179.3](#), [NP_035309.3](#)

RefSeq Size: 2676 bp

RefSeq ORF: 1674 bp

Locus ID: 19156

UniProt ID: [Q61207](#)

Cytogenetics: 10 30.02 cM

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]
Transcript Variant: This variant (2) represents the longest transcript and encodes the longest isoform (B).