

## Product datasheet for **MC218818**

### Psap (NM\_001146122) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Psap (NM_001146122) 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:** >MC218818 representing NM\_001146122  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTACGCCCTCGCCCTCTTCGCCAGCCTTCTGGCCACCCTCTGACCAGCCCTGTCCAAGACCCGAAGA  
 CATGCTCTGGGGCTCAGCAGTCTGTGCAGAGATGTGAAGACGGCGGTGGACTGTGGGGCCGTGAAGCA  
 CTGCCAGCAGATGGTCTGGAGCAAGCCACAGCGAAATCCCTTCCTTGGACATATGCAAACTGTTGTC  
 ACCGAAGCTGGAACTTCTGCTGAAAGATAATGCTACGCAGGAGGAGATCCTTCATTACCTGGAGAAGACCT  
 GTGAGTGGATTATGACTCCAGCCTGTCCGGCTCGTGCAAGGAGGTGGTTGACTCTTACCTGCCTGTCAT  
 CCTGGACATGATTAAGGGCGAGATGAGCAACCCTGGGGAAGTGTGCTCTGCGCTCAACCTCTGCCAGTCC  
 CTTCAGGAGTACTGGCCGAGCAAAACCAGAAACAGCTTGAGTCCAACAAGATCCCGAGGTGGACATGG  
 CCCGTGTGGTTGCCCTTCATGTCCAACATCCCTCTCCTGCTGTACCCTCAGGATCACCCCGCAGCCA  
 GCCCAACCTAAGGCTAACGAGGACGTCTGCCAGGACTGTATGAAGCTGGTGTCTGATGTCCAGACTGCT  
 GTGAAGACCAACTCCAGCTTTATCCAGGGCTTCGTGGACCACGTGAAGGAGGATTGTGACCGCTTGGGGC  
 CAGGCGTGTCTGACATATGCAAGAACTACGTGGACCAGTATTCCGAGGTCTGTGTCCAGATGTTGATGCA  
 CATGCAACCCAAGGAAATCTGTGTGCTGGCTGGCTTCTGTAATGAGGTCAAGAGAGTGCCAAATGAAGACT  
 CTGGTCCCTGCCACCGAGACCTTAAGAACATCCCTCCCTGCCCTGGAGATGATGGACCCCTATGAGAATC  
 TGGTCCAGGCCACAATGTGATTTATGCCAGACCTGTGAGTTTGTGATGAATAAGTTTTCTGAGCTGAT  
 TGTCAATAATGCCACTGAGGAGCTCCTAGTTAAAGTTTGAGCAACGCATGCGCACTGCTCCCGATCCT  
 GCCAGAACCAAGTGCCAGGAGGTGGTGGAAACATTTGGCCCTCCCTGTTGGACATCTTTATCCATGAGG  
 TAAACCCAGCTCTCTGTGCGGTGTGATCGGCCCTCTGTGCTGCCGCCCGGAGTTGGTGGAGCCACTTGA  
 GCAGCCTGCGCCAGCCATTGTATCTGCACTGCTCAAAGAGCCACACCGCCAAAGCAGCCCGCACAGCCC  
 AAGCAGTCGCGATTGCCGCCATGTGCCTCCTCAGAAGAATGGTGGTTCTGTGAGGTGTGCAAGAAAC  
 TGGTCTCTATTTGGAACATAACCTGGAGAAAAACAGCACCAAGGAGGAAATCCTGGCCGCACTTGAGAA  
 GGGCTGCAGTCTCCTGCCAGACCCTTACCAGAAGCAGTGCAGTACTTTGTGGCTGAGTATGAGCCCTTG  
 CTATTGGAGATCCTCGTGAAGTATGATGATCCTGGATTTGTGTGCTCGAAAAATTGGAGTTTGCCTTCTG  
 CCTATAAGCTGCTGCTGGAAACCGAGAAGTGTCTGGGGCCCTAGCTACTGGTGTGCAACATGGAGAC  
 TGCCGCCCGATGCAATGCTGTGATCATTGCAACGCCATGTGTGGAAC**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_001146122
- Insert Size:** 1662 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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\\_001146122.1](#), [NP\\_001139594.1](#)

**RefSeq Size:** 2664 bp

**RefSeq ORF:** 1662 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 (4) lacks an exon in the coding region and uses an alternate in-frame splice site, compared to variant 2, resulting in a shorter protein (isoform D), compared to isoform B.