

## Product datasheet for **MC218817**

### Psap (NM\_001146124) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Psap (NM_001146124) 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:** >MC218817 representing NM\_001146124  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGGCTCCGGGCAAACCTCTCGTGATGCCTCTGACCAGCCCTGTCCAAGACCCGAAGACATGCTCTG  
 GGGCTCAGCAGTGTGTGCAGAGATGTGAAGACGGCGGTGGACTGTGGGCGGTGAAGCACTGCCAGCA  
 GATGGTCTGGAGCAAGCCACAGCGAAATCCCTTCCTTGCACATATGCAAACTGTTGTACCCGAAGCT  
 GGAACCTGTGAAAGATAATGCTACGCAGGAGGAGATCCTTCATTACCTGGAGAAGACCTGTGAGTGGA  
 TTCATGACTCCAGCCTGTGGCCCTCGTGAAGGAGGTGGTTGACTCTTACCTGCCTGTATCCTGGACAT  
 GATTAAGGGCGAGATGAGCAACCCTGGGAAGTGTCTCTGCGCTCAACCTCTGCCAGTCCCTTCAGGAG  
 TACTTGGCCGAGCAAACAGAAACAGCTTGTGCTCAACAAGATCCCGGAGGTGGACATGGCCCGTGTGG  
 TTGCCCTTCATGTCCAACATCCCTCTCTGTGTACCCTCAGGATCACCCCGCAGCCAGCCCAACCC  
 TAAGGCTAACGAGGACGTCTGCCAGGACTGTATGAAGCTGGTGTCTGATGTCCAGACTGCTGTGAAGACC  
 AACTCCAGCTTTATCCAGGGCTTCGTGGACCACGTGAAGGAGGATTGTGACCGCTTGGGGCCAGGCGTGT  
 CTGACATATGCAAGAACTACGTGGACCAGTATTCCGAGGTCTGTGTCCAGATGTTGATGCACATGCAACC  
 CAAGGAAATCTGTGTGCTGGCTGGCTTCTGTAATGAGGTCAAGAGAGTGCCAATGAAGACTCTGGTCCCT  
 GCCACCGAGACCATTAAGAACAATCCCTCCCTGCCCTGGAGATGATGGACCCCTATGAGCAGAATCTGGTCC  
 AGGCCACAATGTGATTTATGCCAGACCTGTCAGTTTGTGATGAATAAGTTTTCTGAGCTGATTGTCAA  
 TAATGCCACTGAGGAGCTCCTAGTTAAAGGTTTGAGCAACGCATGCGCACTGCTCCCGATCCTGCCAGA  
 ACCAAGTGCCAGGAGGTGGTGGGAACATTTGGCCCTCCCTGTTGGACATCTTTATCCATGAGGTAACCC  
 CCAGCTCTGTGCGGTGTGATCGGCCTCTGTGCTGCCCGCCGGAGTTGGTGGAGGCACCTTGAGCAGCC  
 TCGGCCAGCCATTGTATCTGCACTGCTCAAAGAGCCACACCCGCAAGCAGCCCGCACAGCCCAAGCAG  
 TCGGCATTGCCCGCCATGTGCCTCCTCAGAAGAATGGTGGTCTGTGAGGTGTGCAAGAACTGGTCC  
 TCTATTTGGAACATAACCTGGAGAAAAACAGCACCAAGGAGGAAATCCTGGCCGCACTTGAGAAGGGCTG  
 CAGCTTCTGCCAGACCTTACCAGAAGCAGTGCATGACTTTGTGGCTGAGTATGAGCCCTTGCTATTG  
 GAGATCCTCGTGGAAAGTGTGATGATCCTGGATTTGTGTGCTCGAAAATTGGAGTTTGCCCTTCTGCCTATA  
 AGCTGTGCTGGGAACCGAGAAGTGTGTCTGGGCCCTAGCTACTGGTGTGAGAATGGAGACTGCCCGC  
 CCGATGCAATGCTGTGATCATTGCAAACGCCATGTGTGGAAC**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001146124
- Insert Size:** 1656 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\\_001146124.1](#), [NP\\_001139596.1](#)

**RefSeq Size:** 2583 bp

**RefSeq ORF:** 1656 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 (6) uses an alternate exon for its 5' UTR and start codon and lacks an exon in the 3' coding region, compared to variant 2, resulting in a protein (isoform F) with a novel N-terminus and shorter C-terminus, compared to isoform B.