

Product datasheet for **MR227327**

Psap (NM_001146123) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Psap (NM_001146123) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR227327 representing NM_001146123
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTACGCCCTCGCCCTCTTCGCCAGCCTTCTGGCCACCCTCTGACCAGCCCTGTCCAAGACCCGAAGA
 CATGCTCTGGGGCTCAGCAGTCTGTGCAGAGATGTGAAGACGGCGGTGGACTGTGGGGCGTGAAGCA
 CTGCCAGCAGATGGTCTGGAGCAAGCCACAGCGAAATCCCTTCCTTGGACATATGCAAACTGTTGTC
 ACCGAAGCTGGAACTTCTGAAAGATAATGCTACGCAGGAGGAGATCCTTCATTACCTGGAGAAGACCT
 GTGAGTGGATTACGACTCCAGCCTGTCCGGCTCGTGAAGGAGGTGGTTGACTCTTACCTGCCTGTCAT
 CCTGGACATGATTAAGGGCGAGATGAGCAACCTGGGGAAGTGTGCTCTGCGCTCAACCTCTGCCAGTCC
 CTTCAGGAGTACTGGCCGAGCAAAACCAGAAACAGCTTGAGTCCAACAAGATCCCGAGGTGGACATGG
 CCCGTGTGGTTGCCCCCTCATGTCCAACATCCCTCTCCTGCTGTACCCTCAGGATCACCCCGCAGCCA
 GCCCAACCTAAGGCTAACGAGGACGTCTGCCAGGACTGTATGAAGCTGGTGTCTGATGTCCAGACTGCT
 GTGAAGACCAACTCCAGCTTTATCCAGGGCTTCGTGGACCACGTGAAGGAGGATTGTGACCCTTGGGGC
 CAGGCGTGTCTGACATATGCAAGAACTACGTGGACCAGTATCCGAGCAACCCAAGGAAATCTGTGTGCT
 GGCTGGCTTCTGTAATGAGGTCAAGAGAGTGCCAAATGAAGACTCTGGTCCCTGCCACCGAGACCATAAG
 AACATCCTCCCTGCCCTGGAGATGATGGACCCCTATGAGCAGAATCTGGTCCAGGCCACAATGTGATTT
 TATGCCAGACCTGTCAGTTTGTGATGAATAAGTTTTCTGAGCTGATTGTCAATAATGCCACTGAGGAGCT
 CCTAGTTAAAGGTTTGTGCAACGCATGCCACTGCTCCCCGATCCTGCCAGAACCAAGTCCAGGAGGTG
 GTGGGAACATTTGGCCCTCCCTGTTGGACATCTTTATCCATGAGGTAACCCAGCTCTCTGTGCGGTG
 TGATCGGCTCTGTGCTGCCCGCCGGAGTTGGTGGAGGCACTTGAGCAGCCTGCGCCAGCCATGTATG
 TGCACCTGCTCAAAGAGCCACACCCGCAAGCAGCCCGCACAGCCCAAGCAGTCCGGCATTGCCCGCCAT
 GTGCCCTCAGAGAATGGTGGTTCTGTGAGGTGTGCAAGAACTGGTCTCTATTTGGAACATAACC
 TGGAGAAAAACAGCACCAAGGAGGAAATCCTGGCCGCACTTGAGAAGGGCTGCAGCTTCTGCCAGACCC
 TTACCAGAAGCAGTGGATGACTTTGTGGCTGAGTATGAGCCCTTGTATTGGAGATCCTCGTGAAGTG
 ATGGATCTGGATTTGTGTGCTCGAAAATTGGAGTTTGCCTTCTGCCTATAAGCTGCTGCTGGAAACCG
 AGAAGTGTCTGGGGCCCTAGCTACTGGTGTGAGAATGGAGACTGCCGCCGATGCAATGCTGTGCA
 TCATTGCAAACGCCATGTGTGGAAC

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence:

>MR227327 representing NM_001146123
 Red=Cloning site Green=Tags(s)

MYALALFASLLATALTSPVQDPKTCSSGSAVLCRDVKTAVDCGAVKHCQQMVWSKPTAKSLPCDICKTVV
 TEAGNLLKDNATQEEILHYLEKTCEWIHDSSLASCKEVVDSYLPVILDMIKGEMSNPGEVCSALNLCQS
 LQEYLAEQNQKQLESNKIPEVDMARVVAPFMSNIPLLLYPODHPRSQPQPKANEDVCQDCMKLVSDVQTA
 VKTNSSFIQGFVDHVKEDCDRLGPGVSDICKNYVDQYSEQPKIICVLAGFCNEVKRVPMTLVPATETIK
 NILPALEMMDPYEQNLVQAHNVILCQTCQFVMNKFSELI VNNATEELLVKGLSNACALLPDPARTKCQEV
 VGTFFGSPLLDIFIHEVNPSSLCGVIGLCAARPELVEALEQPAPAIVSALLKEPTPPKQPAQPKQSALPAH
 VPPQKNGGFCEVCKKLVLYLEHNLEKNSTKEEILAALEKGSFLPDYQKQCDDFVAEYEP LLLLEILVEV
 MDPGFVCSKIGVCP SAYKLLLGTEKCVWGPSYWCQNMETAARCNVADHCKRHVWN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

ACCN:	NM_001146123
ORF Size:	1635 bp
OTI Disclaimer:	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:	<ol style="list-style-type: none">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_001146123.1 , NP_001139595.1
RefSeq Size:	2640 bp
RefSeq ORF:	1638 bp
Locus ID:	19156
UniProt ID:	Q61207
Cytogenetics:	10 30.02 cM
MW:	60.4 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]