

Product datasheet for **MR227317**

Psap (NM_001146120) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Psap (NM_001146120) 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:

>MR227317 representing NM_001146120
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTACGCCCTCGCCCTCTTCGCCAGCCTTCTGGCCACCCTCTGACCAGCCCTGTCCAAGACCCGAAGA
 CATGCTCTGGGGCTCAGCAGTCTGTGCAGAGATGTGAAGACGGCGGTGGACTGTGGGGCGTGAAGCA
 CTGCCAGCAGATGGTCTGGAGCAAGCCACAGCGAAATCCCTTCCTTGGACATATGCAAACTGTTGTC
 ACCGAAGCTGGAACTTCTGCTGAAAGATAATGCTACGCAGGAGGAGATCCTTACCTGGAGAAGACCT
 GTGAGTGGATTATGACTCCAGCCTGTCCGCTCGTGAAGGAGGTGGTTGACTCTTACCTGCCTGTCAT
 CCTGGACATGATTAAGGGCGAGATGAGCAACCCTGGGAAAGTGTGCTCTGCGCTCAACCTCTGCCAGTCC
 CTTCAGGAGTACTTGGCCGAGCAAAACCAGAAACAGCTTGAGTCCAACAAGATCCCGAGGTGGACATGG
 CCCGTGTGGTTGCCCTTCATGTCCAACATCCCTCTCCTGCTGTACCCTCAGGATCACCCCGCAGCCA
 GCCCAACCTAAGGCTAACGAGGAGCTTCCAGGACTGTATGAAGCTGGTGTCTGATGTCCAGACTGCT
 GTGAAGACCAACTCCAGCTTTATCCAGGGCTTCGTGGACCACGTGAAGGAGGATTGTGACCGCTTGGGGC
 CAGGCGTGTCTGACATATGCAAGAACTACGTGGACCAGTATTCCGAGGTCTGTGTCCAGATGTTGATGCA
 CATGGATCAGCAACCAAGGAAATCTGTGTGCTGGCTGGCTTCTGTAATGAGGTCAAGAGAGTGCCAATG
 AAGACTCTGGTCCCTGCCACCGAGACCTTAAGAACATCCTCCCTGCCCTGGAGATGATGGACCCCTATG
 AGCAGAATCTGGTCCAGGCCACAATGTGATTTATGCCAGACCTGTGAGTTTGTGATGAATAAGTTTTTC
 TGAGCTGATTGTCAATAATGCCACTGAGGAGCTCCTAGTTAAAGGTTTGGCAACGCATGCCACTGCTC
 CCCGATCTGCCAGAACAAGTCCAGGAGGTGGTGGAAACATTTGGCCCTCCCTGTTGGACATCTTTA
 TCCATGAGGTAACCCAGCTCTCTGTGGGTGTGATCGGCCCTCTGTGCTGCCCGCCGAGTTGGTGGTA
 GGCACTTGAGCAGCCTGGCCAGCCATTGTATCTGCACTGCTCAAAGAGCCACACCGCCAAAGCAGCCC
 GCACAGCCCAAGCAGTCCGCATTGCCCGCCATGTGCCTCCTCAGAAGAATGGTGGTCTGTGAGGTGT
 GCAAGAACTGGTCTCTATTTGGAACATAACCTGGAGAAAAACAGCACCAAGGAGGAAATCCTGGCCGC
 ACTTGAGAAGGGCTGCAGCTTCTGCCAGACCCTTACCAGAAGCAGTGGATGACTTTGTGGCTGAGTAT
 GAGCCCTTGCTATTGGAGATCCTCGTGAAGTGTGGATCCTGGATTTGTGTGCTCGAAAATGGAGTTT
 GCCCTTCTGCCTATAAGCTGCTGCTGGAAACCGAGAAGTGTGCTGGGCCCTAGCTACTGGTGTGAGAA
 CATGGAGACTGCCGCCGATGCAATGCTGTCGATCATTGCAAACGCCATGTGTGGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR227317 representing NM_001146120
 Red=Cloning site Green=Tags(s)

MYALALFASLLATALTSPVQDPKTCSSGSAVLCRDVKTAVDCGAVKHCQQMVWSKPTAKSLPCDICKTVV
 TEAGNLLKDNATQEEILHYLEKTCEWIHDSLSASCKEVVDSYLPVILDMIKGEMSNPGEVCSALNLCQS
 LQEYLAEQNQKQLESNKIPEVDMARVVAPFMSNIPLLLYPQDHPRSQPQPKANEDVQCDCMKLVSDVQTA
 VKTNSSFIQGFVDHVKEDCDRLGPGVSDICKNYVDQYSEVCVQMLMHMDQOPKEICVLAGFCNEVKRVP
 KTLVPATETIKNILPALEMMDPYEQNLVQAHNVILCQTCQFVMNKFSELI VNNATEELLVKGLSNACALL
 PDPARTKCQEVVGTFGPSLLDIFIHEVNPSSLCGVIIGLCAARPELVEALEQPAPAIVSALLKEPTPPKQP
 AQPQKQALPAHVPPQKNGGFCEVCKKLVLYLEHNLEKNSTKEEILAALEKGSFLPDPYQKQCDDFVAEY
 EPLLEILVEVMDPGFVCSKIGVCSAYKLLLGTGTEKCVWGPSYWCQNMETAARCNAVHDHCKRHVWN

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

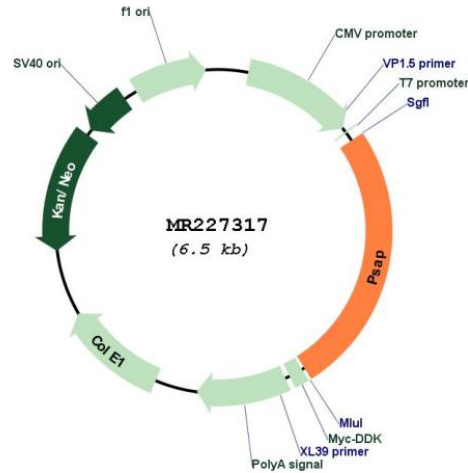
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001146120
ORF Size:	1662 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_001146120.1 , NP_001139592.1
RefSeq Size:	2667 bp
RefSeq ORF:	1665 bp
Locus ID:	19156
UniProt ID:	Q61207
Cytogenetics:	10 30.02 cM
MW:	61.5 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]