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Product datasheet for MR227325

Psap (NM_001146122) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Psap (NM_001146122) 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

View online »

ORF Nucleotide Sequence:

>MR227325 representing NM_001146122
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTACGCCCTCGCCCTCTTCGCCAGCCTTCTGGCCACCGCTCTGACCAGCCCTGTCCAAGACCCGAAGA
CATGCTCTGGGGGCTCAGCAGTGCTGTGCAGAGATGTGAAGACGGCGGTGGACTGTGGGGCCGTGAAGCA
CTGCCAGCAGATGGTCTGGAGCAAGCCCACAGCGAAATCCCTTCCTTGCGACATATGCAAAACTGTTGTC
ACCGAAGCTGGGAACTTGCTGAAAGATAATGCTACGCAGGAGGAGATCCTTCATTACCTGGAGAAGACCT
GTGAGTGGATTCATGACTCCAGCCTGTCGGCCTCGTGCAAGGAGGTGGTTGACTCTTACCTGCCTGTCAT
CCTGGACATGATTAAGGGCGAGATGAGCAACCCTGGGGAAGTGTGCTCTGCGCTCAACCTCTGCCAGTCC
CTTCAGGAGTACTTGGCCGAGCAAAACCAGAAACAGCTTGAGTCCAACAAGATCCCGGAGGTGGACATGG
CCCGTGTGGTTGCCCCCTTCATGTCCAACATCCCTCTCCTGCTGTACCCTCAGGATCACCCCCGCAGCCA
GCCCCAACCTAAGGCTAACGAGGACGTCTGCCAGGACTGTATGAAGCTGGTGTCTGATGTCCAGACTGCT
GTGAAGACCAACTCCAGCTTTATCCAGGGCTTCGTGGACCACGTGAAGGAGGATTGTGACCGCTTGGGGC
CAGGCGTGTCTGACATATGCAAGAACTACGTGGACCAGTATTCCGAGGTCTGTGTCCAGATGTTGATGCA
CATGGATCAGCAACCCAAGGAAATCTGTGTGCTGGCTGGCTTCTGTAATGAGGTCAAGAGAGTGCCAATG
AAGACTCTGGTCCCTGCCACCGAGACCATTAAGAACATCCTCCCTGCCCTGGAGATGATGGACCCCTATG
AGCAGAATCTGGTCCAGGCCCACAATGTGATTTTATGCCAGACCTGTCAGTTTGTGATGAATAAGTTTTC
TGAGCTGATTGTCAATAATGCCACTGAGGAGCTCCTAGTTAAAGGTTTGAGCAACGCATGCGCACTGCTC
CCCGATCCTGCCAGAACCAAGTGCCAGGAGGTGGTGGGAACATTTGGCCCCTCCCTGTTGGACATCTTTA
TCCATGAGGTAAACCCCAGCTCTCTGTGCGGTGTGATCGGCCTCTGTGCTGCCCGCCCGGAGTTGGTGGA
GGCACTTGAGCAGCCTGCGCCAGCCATTGTATCTGCACTGCTCAAAGAGCCCACACCGCCAAAGCAGCCC
GCACAGCCCAAGCAGTCGGCATTGCCCGCCCATGTGCCTCCTCAGAAGAATGGTGGGTTCTGTGAGGTGT
GCAAGAAACTGGTCCTCTATTTGGAACATAACCTGGAGAAAAACAGCACCAAGGAGGAAATCCTGGCCGC
ACTTGAGAAGGGCTGCAGCTTCCTGCCAGACCCTTACCAGAAGCAGTGCGATGACTTTGTGGCTGAGTAT
GAGCCCTTGCTATTGGAGATCCTCGTGGAAGTGATGGATCCTGGATTTGTGTGCTCGAAAATTGGAGTTT
GCCCTTCTGCCTATAAGCTGCTGCTGGGAACCGAGAAGTGTGTCTGGGGCCCTAGCTACTGGTGTCAGAA
CATGGAGACTGCCGCCCGATGCAATGCTGTCGATCATTGCAAACGCCATGTGTGGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

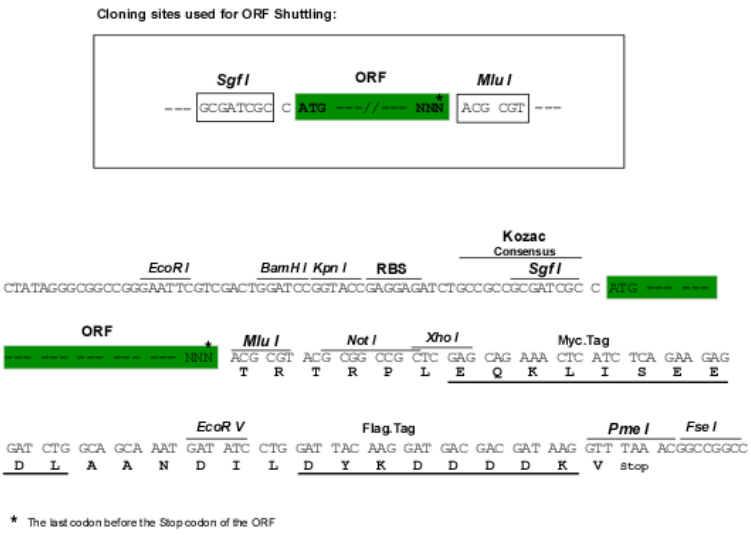
>MR227325 representing NM_001146122
Red=Cloning site Green=Tags(s)

MYALALFASLLATALTSPVQDPKTCSGGSAVLCRDVKTAVDCGAVKHCQQMVWSKPTAKSLPCDICKTVV
TEAGNLLKDNATQEEILHYLEKTCEWIHDSSLSASCKEVVDSYLPVILDMIKGEMSNPGEVCSALNLCQS
LQEYLAEQNQKQLESNKIPEVDMARVVAPFMSNIPLLLYPQDHPRSQPQPKANEDVCQDCMKLVSDVQTA
VKTNSSFIQGFVDHVKEDCDRLGPGVSDICKNYVDQYSEVCVQMLMHMDQQPKEICVLAGFCNEVKRVPM
KTLVPATETIKNILPALEMMDPYEQNLVQAHNVILCQTCQFVMNKFSELIVNNATEELLVKGLSNACALL
PDPARTKCQEVVGTFGPSLLDIFIHEVNPSSLCGVIGLCAARPELVEALEQPAPAIVSALLKEPTPPKQP
AQPKQSALPAHVPPQKNGGFCEVCKKLVLYLEHNLEKNSTKEEILAALEKGCSFLPDPYQKQCDDFVAEY
EPLLLEILVEVMDPGFVCSKIGVCPSAYKLLLGTEKCVWGPSYWCQNMETAARCNAVDHCKRHVWN

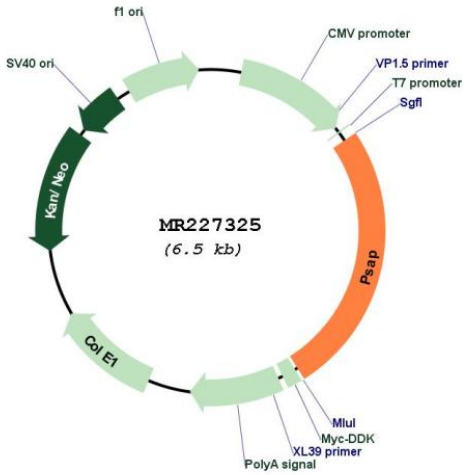
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001146122
ORF Size:	1659 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:	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
MW:	61.4 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]