

## Product datasheet for **SC311393**

### PSAP (NM\_001042466) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PSAP (NM_001042466) Human Untagged Clone
Tag:	Tag Free
Symbol:	PSAP
Synonyms:	GLBA; SAP1; SAP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC311393 representing NM\_001042466.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGTACGCCCTCTTCTCCTGGCCAGCCTCTGGGCGCGGCTCTAGCCGGCCCGGTCTTGGACTGAAA
GAATGCACCAGGGGCTCGGCAGTGTGGTGCCAGAATGTGAAGACGGCGTCCGACTGCGGGCAGTGAAG
CACTGCCTGCAGACCGTTTGGAAACAAGCCAACAGTGAAATCCCTTCCCTGCGACATATGCAAAGAGGTT
GTCACCGCAGCTGGTGATGCTGAAGGACAATGCCACTGAGGAGGAGATCCTTGTTTACTTGGAGAAG
ACCTGTGACTGGCTTCCGAAACCGAACATGTCTGCTTCATGCAAGGAGATAGTGGACTCCTACCTCCCT
GTCATCCTGGACATCATTAAAGGAGAAAAGAGCCGCTCTGGGAGGTGTGCTCTGCTCTCAACCTCTGC
GAGTCTCTCCAGAAGCACCTAGCAGAGCTGAATCACCAGAAGCAGCTGGAGTCCAATAAGATCCCAGAG
CTGGACATGACTGAGGTGGTGGCCCTTTCATGGCCAACATCCCTCTCCTCTACCTCAGGACGGC
CCCCGAGCAAGCCCAGCCAAAGGATAATGGGACGTTTCCAGGACTGCATTCAGATGGTGACTGAC
ATCCAGACTGCTGTACGGACCACTCCACCTTTGTCCAGGCTTGGTGGAAACATGTCAAGGAGGAGTGT
GACCGCCTGGGCCCTGGCATGGCCGACATATGCAAGAACTATATCAGCCAGTATTCTGAAATTGCTATC
CAGATGATGATGCACATGGATCAGCAACCCAAGGAGATCTGTGGCTGGTTGGGTCTGTGATGAGGTG
AAAGAGATGCCCATGCAGACTCTGGTCCCCGCCAAAGTGGCTCCAAGAATGTCATCCCTGCCCTGGAA
CTGGTGGAGCCCATTAAGAAGCAGGAGTCCCAGCAAAGTCTGATGTTTACTGTGAGGTGTGTGAATTC
CTGGTGAAGGAGGTGACCAAGCTGATTGACAACAACAAGACTGAGAAAGAAAATACTCGACGCTTTTGAC
AAAATGTGCTCGAAGCTGCCAAGTCCCTGTGGAAGAGTGCCAGGAGGTGGTGGACACGTACGGCAGC
TCCATCCTGTCCATCCTGCTGGAGGAGTCCAGCCTGAGCTGGTGTGCAGCATGCTGCACCTCTGCTCT
GGCAGCGGCTGCCTGCACTGACCGTTACGTGACTCAGCCAAAGGACGGTGGCTTCTGCGAAGTGTGC
AAGAAGCTGGTGGTTATTTGGATCGCAACCTGGAGAAAAACAGCACCAAGCAGGAGATCCTGGCTGCT
CTTGAGAAAGGCTGCAGCTTCTGCCAGACCCTTACCAGAAGCAGTGTGATCAGTTTGTGCGAGAGTAC
GAGCCCGTGTGATCGAGATCCTGGTGGAGGTGATGGATCCTTCTTCTGCTGTGTTGAAAATTGGAGCC
TGCCCTCGGCCATAAGCCCTTGTGGAACTGAGAAGTGTATATGGGGCCCAAGCTACTGGTGCCAG
AACACAGAGACAGCAGCCAGTGAATGCTGTGAGCATTGCAAACGCCATGTGTGGAACTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001042466

**Insert Size:** 1581 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001042466.2</a>
<b>RefSeq Size:</b>	2912 bp
<b>RefSeq ORF:</b>	1581 bp
<b>Locus ID:</b>	5660
<b>UniProt ID:</b>	<a href="#">P07602</a>
<b>Cytogenetics:</b>	10q22.1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Lysosome
<b>MW:</b>	58.4 kDa
<b>Gene Summary:</b>	<p>This gene encodes a highly conserved preproprotein that is proteolytically processed to generate four main cleavage products including saposins A, B, C, and D. Each domain of the precursor protein is approximately 80 amino acid residues long with nearly identical placement of cysteine residues and glycosylation sites. Saposins A-D localize primarily to the lysosomal compartment where they facilitate the catabolism of glycosphingolipids with short oligosaccharide groups. The precursor protein exists both as a secretory protein and as an integral membrane protein and has neurotrophic activities. Mutations in this gene have been associated with Gaucher disease and metachromatic leukodystrophy. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed. [provided by RefSeq, Feb 2016]</p> <p>Transcript Variant: This variant (3) uses an alternate in-frame splice site in the coding region, compared to variant 2, resulting in a shorter protein (isoform c), compared to isoform b.</p>