

Product datasheet for **SC308998**

SGPL1 (NM_003901) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SGPL1 (NM_003901) Human Untagged Clone
Tag:	Tag Free
Symbol:	SGPL1
Synonyms:	NPHS14; S1PL; SPL
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF sequence for NM_003901 edited
 ATGCCTAGCACAGACCTTCTGATGTTGAAGGCCTTTGAGCCCTACTTAGAGATTTTGAA
 GTATACTCCACAAAAGCCAAGAATTATGTAAATGGACATTGCACCAAGTATGAGCCCTGG
 CAGCTAATTGCATGGAGTGTCTGTGGACCCTGCTGATAGTCTGGGGATATGAGTTTGTCT
 TTCCAGCCAGAGAGTTTATGGTCAAGGTTTAAAAAGAAATGTTTTAAGCTCACCAGGAAG
 ATGCCCATTATTGGTCGTAAGATTCAAGACAAGTTGAACAAGACCAAGGATGATATTAGC
 AAGAACATGTCTCTGAAAGTGGACAAGAGTATGTGAAAGCTTTACCCTCCCAGGGT
 CTGAGCTCATCTGCTGTTTTGGAGAACTTAAGGAGTACAGCTCTATGGACGCCTTCTGG
 CAAGAGGGGAGAGCCTCTGGAACAGTGTACAGTGGGGAGGAGAAGCTCACTGAGCTCCTT
 GTGAAGGCTTATGGAGATTTTGCATGGAGTAACCCCTGCATCCAGATATCTTCCCAGGA
 CTACGCAAGATAGAGGCAGAAATTGTGAGGATAGCTTGTTCCTGTTCAATGGGGGACCA
 GATTTCGTGTGGATGTGTGACTTCTGGGGAACAGAAAGCATACTGATGGCCTGCAAAGCA
 TATCGGGATCTGGCCTTTGAGAAGGGGATCAAACTCCAGAAATTGTGGCTCCCCAAAGT
 GCCCATGCTGCATTTAACAAAGCAGCCAGTTACTTTGGGATGAAGATTGTGCGGGTCCCA
 TTGACGAAGATGATGGAGGTGGATGTGCGGGCAATGAGAAGAGCTATCTCCAGGAACACT
 GCCATGCTCGTCTGTTCTACCCACAGTTTCTCATGGTGAATAGATCCGTGCCCTGAA
 GTGGCCAAGCTGGCTGTCAAATACAAAATACCCCTTCATGTGCGACGCTTGTCTGGGAGGC
 TTCTCATCGTCTTTATGGAGAAAGCAGGATACCCACTGGAGCACCCATTTGATTTCCGG
 GTGAAAGGTGAACCAGCATTTCAGCTGACACCATAAGTATGGCTATGCCCCAAAAGGC
 TCATCATTGGTGTGTATAGTGACAAGAAGTACAGGAATCAGTTCTTCGTGATACA
 GATTGGCAGGGTGGCATCTATGCTTCCCAACCATCGCAGGCTCACGGCTTGGTGGCATT
 AGCGCAGCCTGTTGGGCTGCCTTGATGCACTTCGGTGAGAACGGCTATGTTGAAGCTACC
 AAACAGATCATAAAACCTGCTCGCTTCCCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGT
 TTTGTTTTGGGAATCCCAATTGTCAGTCAATTGCTCTGGGATCCCGTGATTTTGACATC
 TACCGACTATCAAACCTGATGACTGCTAAGGGGTGGAACCTGAACCAGTTGCAGTTCCCA
 CCCAGTATTCAATTTCTGCATCACATTAACACGCCCGGAAACGAGTAGCTATACAATTC
 CTAAGGACATTCGAGAATCTGTCACTCAAATCATGAAGAATCCTAAAGCGAAGACCACA
 GGAATGGGTGCCATCTATGGCATGGCCAGACAAGTGTGACAGGAATATGGTTGCAGAA
 TTGTCTCAGTCTTCTGGACAGCTTGTACAGCACCGACACTGTCACCCAGGGCAGCCAG
 ATGAATGGTTCTCCAAAACCCACTGA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_003901 unedited
 GTTCNCATTTGTATACGACTCATATAGGCGGCCGCGNAATTCNATCTGGTACCGAGCTCG
 GATCCACTAGTAACGGCCGCCAGTGTGCTGGAATTCGCCCTTGGCGTGAGGAGAGTCTGA
 AAAAGGGAGCGCGGAGAGGAGGCTGGAAGAGGAAGATGCCTAGCACAGACCTTCTGATGT
 TGAAGGCCTTTGAGCCCTACTTAGAGATTTTGAAGTATACTCCACAAAAGCCAAGAATT
 ATGTAATGGACATTGCACCAAGTATGAGCCCTGGCAGCTAATTGCATGGAGTGTCTGT
 GGACCCTGCTGATAGTCTGGGGATATGAGTTTGTCTTCCAGCCAGAGAGTTTATGGTCAA
 GGTTTTAAAAAGAAATGTTTTAAGCTCACCAGGAAGATGCCCATTTTGGTTCGTAAGATTC
 AAGACAAGTTGAACAAGACCAAGGATGATATTAGCAAGAACATGTCATTCTGAAAGTGG
 ACAAGAGTATGTGAAAGCTTTACCCTCCAGGGTCTGAGCTCATCTGCTGTTTTGGAGA
 AACTTAAGGAGTACAGCTCTATGGACGCCTTCTGGCAAGAGGGGAGAGCCTCTGGAACAG
 TGTACAGTGGGGAGGAGAAGCTCACTGAGCTCCTTGTGAAGGCTTATGGAGATTTGCAT
 GGAGTAACCCCTGCATCCAGATATCTTCCAGGACTACGCAAGATAGAGGCAGAAATTG
 TGAGGATAGCTTGTTCCTGTTCAAGGGGACCAGATTCTGTGGATGTGTGACTTCTGG
 GGAACAGAAAGCATACTGATGGCTGCANAGCATATCGGGATC

3' Read Nucleotide Sequence:	>OriGene 3' genomic read for NM_003901 unedited NCTGTTAATGGGGNACCACTATCGTGTGGNTGTGTGACTTCTGGGGGAACANAAGCATA CTGGATGGCCTGCAAAGCATATCGGGATCTGGCCTTTGAGAAGGGGATCAAACTCCAGA AATGTGGCTCCCCAAAGTGCCATGCTGCATTTAACAAGCAGCCAGTTACTTTGGGATG AAGATTGTGCGGGTCCCATTGACGAAGATGATGGAGGTGGATGTGCGGGCAATGAGAAGA GCTATCTCCAGGAACACTGCCATGCTCGTCTGTCTACCCACAGTTTCCTCATGGTGTA ATAGATCCTGTCCTGAAGTGGCCAAGCTGGCTGTCAAATACAAAATACCCCTTCATGTC GACGCTTGTCTGGGAGGCTTCTCATCGTCTTTATGGAGAAAGCAGGATACCCACTGGAG CACCCATTTGATTTCCGGGTGAAAGGTGTAACCAGCATTTTCAGCTGACACCCATAAGTAT GGCTATGCCCCAAAAGGCTCATATTGGTGTGTATAGTGACAAGAAGTACAGGAACTAT CAGTTCTCGTCGATACAGATTGGCAGGGTGGCATCTATGCTTCCCAACCATCGCAGGC TCACGGCCTGGTGGCATTAGCGCAGCCTGTTGGGCTGCCTTGATGCACTTCGGTGAAGC GGCTATGTTGAAGCTACCAAACAGATCATCAAAGTCTCGCTTCTCAAGTCAGAACTG GAAAATATCAAAGGCATCTTTGTTTTGGGAATCCCAATTGTCAGTCATTGCTCTGGGA TCCCGTGATTTTGACATCTACCGACTATCAAACCTGATGACTGCTAA
Restriction Sites:	Please inquire
ACCN:	NM_003901
Insert Size:	4500 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 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
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_003901.2 , NP_003892.2

RefSeq Size:	4701 bp
RefSeq ORF:	1707 bp
Locus ID:	8879
UniProt ID:	<u>O95470</u>
Cytogenetics:	10q22.1
Domains:	pyridoxal_deC
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Sphingolipid metabolism
Gene Summary:	<p>Cleaves phosphorylated sphingoid bases (PSBs), such as sphingosine-1-phosphate, into fatty aldehydes and phosphoethanolamine. Elevates stress-induced ceramide production and apoptosis (PubMed:11018465, PubMed:14570870, PubMed:24809814, PubMed:28165339). Required for global lipid homeostasis in liver and cholesterol homeostasis in fibroblasts. Involved in the regulation of pro-inflammatory response and neutrophil trafficking. Modulates neuronal autophagy via phosphoethanolamine production which regulates accumulation of aggregate-prone proteins such as APP (By similarity). Seems to play a role in establishing neuronal contact sites and axonal maintenance (By similarity).[UniProtKB/Swiss-Prot Function]</p>