

Product datasheet for **MC202842**

Sgpl1 (NM_009163) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sgpl1 (NM_009163) Mouse Untagged Clone
Tag: Tag Free
Symbol: Sgpl1
Synonyms: AI428538; D10Xrf456; S1PL; Spl
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC026135 sequence for NM_009163
 CCACGCGTCCGACCGAGGCGCGTGAGGTGGCGGGCCAGCGGAGCCTCTGCGGGAAAGAAGGAGCC
 GGGTCCACAGCCTGAGGAGACGACAGGGCAGGGCAGCCCCGGGGAGGGAGCCGGTGCAGAGGAAGATGC
 CCGGAACCGACCTCCTCAAGCTGAAGGACTTCGAGCCTTATTTGGAGATTTTGGAAATCATATTCCACAAA
 AGCCAAGAATTATGTGAATGGATATTGCACCAAATATGAGCCCTGGCAGCTCATTGCGTGGAGTGTCTGT
 TGTACTCTGCTGATAGTCTGGGTGTATGAGCTTATCTTCCAGCCAGAGAGTTTATGGTCTCGGTTTAAAA
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 AAGGGAAAGCCTCAGGAGCTGTGTACAATGGGAAACCGAAGCTCACGGAGCTGCTGGTGCAGGCTTATGG
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 GCAGAAATATCCTCCGTCTTCTGGACTGCCTTATACTACGGACCCCGTACTCAGGGCAACCAGATGA



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ACGGTTCTCCAAAGCCCCGCTGAACTTTGACCCTTGTGAGTTCCTTGGAGCTTCAGGCCTTCAGAAGGTT
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CCTACCATCTCTATGTTCTTTCCTAACTGCAGCAATAACCCTTCAAAGCAATTGAATAATAAATGTCCC
AAACTGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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Restriction Sites:

RsrII-NotI

ACCN:

NM_009163

Insert Size:

1707 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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: [BC026135](#), [AAH26135](#)

RefSeq Size: 4108 bp

RefSeq ORF: 1707 bp

Locus ID: 20397

UniProt ID: [Q8R0X7](#)

Cytogenetics: 10 32.14 cM

Gene Summary: Cleaves phosphorylated sphingoid bases (PSBs), such as sphingosine-1-phosphate, into fatty aldehydes and phosphoethanolamine (PubMed:9464245, PubMed:20097939). Elevates stress-induced ceramide production and apoptosis (PubMed:9464245). Required for global lipid homeostasis in liver and cholesterol homeostasis in fibroblasts (PubMed:20097939, PubMed:28262793). Involved in the regulation of pro-inflammatory response and neutrophil trafficking (PubMed:21173151). Modulates neuronal autophagy via phosphoethanolamine production which regulates accumulation of aggregate-prone proteins such as APP (PubMed:28521611). Seems to play a role in establishing neuronal contact sites and axonal maintenance (By similarity).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 2, and 3 encode the same protein.