

## Product datasheet for RC208705L3

### 9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

CN: techsupport@origene.cn

OriGene Technologies, Inc.

### SGPL1 (NM\_003901) Human Tagged Lenti ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

**Product Name:** SGPL1 (NM\_003901) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: SGPL1

Synonyms: NPHS14; S1PL; SPL

Mammalian Cell

Selection:

-

**Vector:** pLenti-C-Myc-DDK-P2A-Puro (PS100092)

Puromycin

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this

Sequence:

The ORF insert of this clone is exactly the same as(RC208705).

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





st The last codon before the Stop codon of the ORF.

**ACCN:** NM\_003901

ORF Size: 1704 bp



#### SGPL1 (NM\_003901) Human Tagged Lenti ORF Clone - RC208705L3

**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: <u>NM 003901.2</u>, <u>NP 003892.2</u>

 RefSeq Size:
 4701 bp

 RefSeq ORF:
 1707 bp

 Locus ID:
 8879

 UniProt ID:
 095470

Cytogenetics: 10q22.1

**Domains:** pyridoxal\_deC

**Protein Pathways:** Metabolic pathways, Sphingolipid metabolism

Druggable Genome

MW: 63.3 kDa

**Protein Families:** 

Gene Summary: Cleaves phosphorylated sphingoid bases (PSBs), such as sphingosine-1-phosphate, into fatty

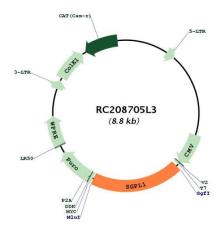
aldehydes and phosphoethanolamine. Elevates stress-induced ceramide production and apoptosis (PubMed:11018465, PubMed:14570870, PubMed:24809814, PubMed:28165339). Required for global lipid homeostasis in liver and cholesterol homeostasis in fibroblasts. Involved in the regulation of pro-inflammatory 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-

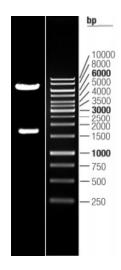
Prot Function]



# **Product images:**



Circular map for RC208705L3



Double digestion of RC208705L3 using Sgfl and Mlul