

## Product datasheet for **RC209497**

### **sphingosine 1 phosphate phosphatase 1 (SGPP1) (NM\_030791) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	sphingosine 1 phosphate phosphatase 1 (SGPP1) (NM_030791) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	sphingosine 1 phosphate phosphatase 1
Synonyms:	SPP-1; SPPase1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC209497 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTCGCTGAGGCAGCGCCTGGCCAGCTGGTTGGCCGTCTGCAGGACCCGAGAAAGTGGCCGTTTCC  
 AGCGGCTGTGCGGGTGAAGCGCCGCCGCGCCTCAGCAGACCGAGGGAGGATGAGAAAGCGGAGGC  
 GCCTCTCGCCGGAGACCCTCGACTGCGAGGGCGGCAGCCAGGGGCGCCTGGAGGCCCCACGCTCCCGGG  
 AGCGACCGCAATCAGTCCCCGGCAAGCGGACGGCGGGCGCCCAACGGCGTGCAGAACGGGCTGG  
 CGGCCGAGCTGGGCCGGCCTCGCCGGCGCGCGGGCGCTCTGCGCCCAACTCGCTGACGGGCGAGGA  
 GGGCCAGCTGGCCCGGTGAGCAACTGGCCGCTCTACTGCCTGTTCTGCTTCGGCACGGAGCTGGCAAC  
 GAACTCTTCTACATCCTGTTCTTCCCCTCTGGATCTGGAACCTGGACCCTCTGGTGGGCCGGAGGCTCG  
 TGGTCATCTGGGTGCTGGTCATGTACCTGGGCCAGTGCACCAAGGACATCATCCGCTGGCCGAGGCCCGC  
 CTCGCCCGCCGTGGTCAAGTTGGAGGTCTTCTACAACCTGAGTACAGCATGCCCTCCACCCATGCCATG  
 TCCGGCACCGCCATCCCCATTTCTATGGTCCTCCTCACCTATGGCCGCTGGCAGTACCCTCTTATATATG  
 GACTGATTCTTATCCCTGCTGGTGTCTCTAGTTTGCCTAAGTAGAATTTACATGGGAATGCACCTCTAT  
 TCTGGATATTATTGCTGGATTCCATATAACCATTTAATCTTAGCTGTCTTCTATCCATTTGTTGGACCTG  
 ATTGACAACTTCAACCAACTCACAAATATGCTCCATTCATCATCGGGCTTCATTTAGCTTTGGGGA  
 TCTTTTCTTCTACTCTTGACACCTGGAGCACATCCCGAGGAGACACAGCCGAGATACTAGGAAGTGGTGC  
 TGGAAATGCATGTGGATCTCATGTTACTTATAACATGGGTCTAGTATTAGATCCTTCTCTAGATACATTA  
 CCTTTAGCTGGGCCCCCACTACTGTGACTCTGTTTGGAAAAGCCATATTGGGGATCCTCATAGGGATGG  
 TATTTGTAATAATCAGAGATGTAATGAAAAAGATCACCATTCCTTTAGCCTGCAAAATCTTCAATAT  
 ACCGTGTGATGATATTCGAAAAGCAAGACAGCACATGGAAGTTGAACTTCCTTATCGGTATATTACCTAT  
 GGAATGGTTGGTTTCTCCATCACATTTTTTGTTCCTTACATATTTTTCTTTATTGGTATCTCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC209497 protein sequence  
 Red=Cloning site Green=Tags(s)

MSLRQRLAQLVGRLQDPQKVARFQRLCGVEAPRRSADRREDEKAEAPLAGDPRLRGRQPGAPGGPQPPG  
 SDRNQCPAKPDGGGAPNGVRNGLAAELGPASPRRAGALRRNSLTGEEQLARVSNWPLYCLFCFGTELGN  
 ELFYILFFPFIWNLDPVGRRLVVIWVLMYLGQCTKDIIRWPRPASPPVVKLEVFYNSEYSMPSTHAM  
 SGTAIPISMVLLTYGRWQYPLIYGLILIPCWCSLVCLSRITYMGMHSILDIAGFLYITILILAVFYFPVDL  
 IDNFNQTHKYAPFIIIGLHLALGIFSFTLDTWSTSRGDTAEILGSGAGIACGSHVTYNMGLVLDPSLDTL  
 PLAGPPIVTFLFGKAILRILIGMVFVLIIRDVMKKITIPLACKIFNIPCDDIRKARQHMEVELPYRYITY  
 GMVGSITFFVPYIFFFIGIS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_030791

**ORF Size:** 1323 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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

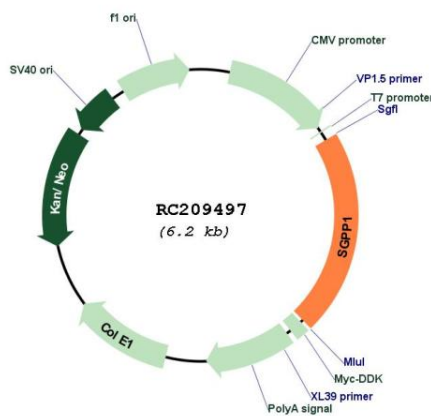
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_030791.4](#)

RefSeq Size:	3323 bp
RefSeq ORF:	1326 bp
Locus ID:	81537
UniProt ID:	<a href="#">Q9BX95</a>
Cytogenetics:	14q23.2
Domains:	acidPPc
Protein Families:	Druggable Genome, Phosphatase, Transmembrane
Protein Pathways:	Sphingolipid metabolism
MW:	49.1 kDa
Gene Summary:	Sphingosine-1-phosphate (S1P) is a bioactive sphingolipid metabolite that regulates diverse biologic processes. SGPP1 catalyzes the degradation of S1P via salvage and recycling of sphingosine into long-chain ceramides (Mandala et al., 2000 [PubMed 10859351]; Le Stunff et al., 2007 [PubMed 17895250]).[supplied by OMIM, Jun 2009]

**Product images:**



Circular map for RC209497