

Product datasheet for **RG209497**

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:	TurboGFP
Symbol:	SGPP1
Synonyms:	SPP-1; SPPase1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209497 representing NM_030791 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGCTGAGGCAGCGCCTGGCCAGCTGGTTGGCCGTCTGCAGGACCCGAGAAAGTGGCCGTTTCC
AGCGGCTGTGCGGGGTGGAAGCGCCGCCGCGCTCAGCAGACCGGAGGGAGGATGAGAAAGCGGAGGC
GCCTCTCGCCGGAGACCCTCGACTGCGAGGGCGGCAGCCAGGGCGCCTGGAGGCCCCAGCCTCCCGG
AGCGACCGCAATCAGTGCCCGGCAAGCCGGACGGCGGGCGGCCCAACGGCGTGCAGAACGGGCTGG
CGCCGAGCTGGCCCGCCTCGCCGCGCGCGGGCGCTCTGCGCCCAACTCGCTGACGGGCGAGGA
GGCCAGCTGGCCCGCTGAGCAACTGGCCGCTCTACTGCCTGTTCTGCTTCGGCACGGAGCTGGGCAAC
GAACTCTTCTACATCCTGTTCTTCCCTTCTGGATCTGGAACCTGGACCCTCTGGTGGGCCGGAGGCTCG
TGGTCACTGGGTGCTGGTCATGTACCTGGGCCAGTGCACCAAGGACATCATCCGCTGGCCGAGGCCCGC
CTCGCCGCCCGTGGTCAAGTTGGAGTCTTCTACAACCTGAGTACAGCATGCCCTCCACCCATGCCATG
TCCGGCACCGCCATCCCATTTCTATGGTCTCCTCACCTATGGCCGCTGGCAGTACCCTTATATATG
GACTGATTCTTATCCCTGCTGGTGTCTCTAGTTTGCCTAAGTAGAATTACATGGGAATGCACCTAT
TCTGGATATTATTGCTGGATTCTATATACCATTTAATCTTAGCTGTCTCTATCCATTTGTGGACCTG
ATTGACAACTTCAACAACTCACAAATATGCTCCATTCATCATCGGGCTTCATTTAGCTTTGGGGA
TCTTTTCTTCACTCTTGACACCTGGAGCACATCCCGAGGAGACACAGCCGAGATACTAGGAAGTGGTGC
TGAATTGCATGTGGATCTCATGTTACTTATAACATGGGTCTAGTATTAGATCCTTCTCTAGATACATTA
CCTTTAGCTGGGCCCCCATTAAGTGTGACTCTGTTTGGAAAAGCCATATTGCGGATCCTCATAGGGATGG
TATTTGTAATAATCAGAGATGTAATGAAAAAGATCACCATTCTTTAGCCTGCAAAATCTTCAATAT
ACCGTGTGATGATATTCGAAAAGCAAGACAGCACATGGAAGTTGAACTTCTTATCGGTATATTACCTAT
GGAATGGTTGGTTCTCCATCACATTTTTTGTTCCTTACATATTTTTCTTTATTGGTATCTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209497 representing NM_030791
 Red=Cloning site Green=Tags(s)

MSLRQRLAQLVGRLQDPQKVARFQRLCGVEAPRRSADRREDEKAEAPLAGDPRLRGRQPGAPGGPQPPG
 SDRNQCPAKPDGGGAPNGVRNGLAAELGPASPRRAGALRRNSL TGEQGQLARVSNWPLYCLFCFGTELGN
 ELFYILFFPFIWNLDPVGRRLVVIWVLMYLGQCTKDIIRWPRPASPPVVKLEVFYNSEYSMPSTHAM
 SGTAIPIISMVLLTYGRWQYPLIYGLILPCWCSLVCLSRIMYMGMSILDIIAGFLYITILAVFYPFVDL
 IDNFNQTHKYAPFIIIGLHLALGIFSFTLDTWSTSRGDTAEILGSGAGIACGSHVTYNMGLVLDPSLDTL
 PLAGPPITVTLFGKAILRILIGMVFVLIIRDVMKKITIPLACKIFNIPCCDIRKARQHMEVELPYRYITY
 GMVGFISITFFVPYIFFFIGIS

TRTRPLE - GFP Tag - V

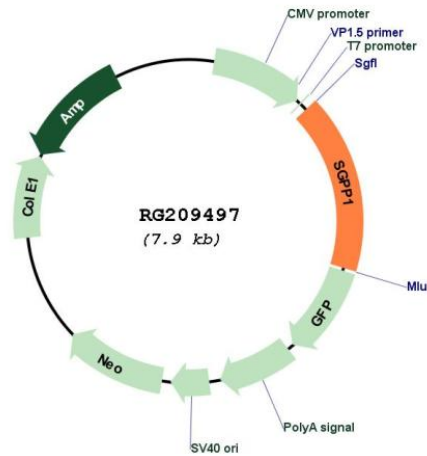
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_030791

ORF Size:	1323 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<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_030791.4
RefSeq Size:	3323 bp
RefSeq ORF:	1326 bp
Locus ID:	81537
UniProt ID:	Q9BX95
Cytogenetics:	14q23.2
Domains:	acidPPc
Protein Families:	Druggable Genome, Phosphatase, Transmembrane
Protein Pathways:	Sphingolipid metabolism
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]