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Product datasheet for SC107997

sphingosine 1 phosphate phosphatase 1 (SGPP1) (NM_030791) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	sphingosine 1 phosphate phosphatase 1 (SGPP1) (NM_030791) Human Untagged Clone
Tag:	Tag Free
Symbol:	sphingosine 1 phosphate phosphatase 1
Synonyms:	SPP-1; SPPase1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC107997 sequence for NM_030791 edited (data generated by NextGen Sequencing)

ATGTCGCTGAGGCAGCGCCTGGCCCAGCTGGTTGGCCGTCTGCAGGACCCGCAGAAAGTG
GCCCGTTTCCAGCGGCTGTGCGGGGTGGAAGCGCCGCCGCGCCGCTCAGCAGACCGGAGG
GAGGATGAGAAAGCGGAGGCGCCTCTCGCCGGAGACCCTCGACTGCGAGGGCGGCAGCCA
GGGGCGCCTGGAGGCCCCCAGCCTCCCGGGAGCGACCGCAATCAGTGCCCGGCCAAGCCG
GACGGCGGCGGCGCCCCCAACGGCGTGCGGAACGGGCTGGCGGCCGAGCTGGGCCCGGCC
TCGCCGCGGCGCGCGGGCGCTCTGCGCCGCAACTCGCTGACGGGCGAGGAGGGCCAGCTG
GCCCGCGTGAGCAACTGGCCGCTCTACTGCCTGTTCTGCTTCGGCACGGAGCTGGGCAAC
GAACTCTTCTACATCCTGTTCTTCCCCTTCTGGATCTGGAACCTGGACCCTCTGGTGGGC
CGGAGGCTCGTGGTCATCTGGGTGCTGGTCATGTACCTGGGCCAGTGCACCAAGGACATC
ATCCGCTGGCCGAGGCCCGCCTCGCCGCCCGTGGTCAAGTTGGAGGTCTTCTACAACTCT
GAGTACAGCATGCCCTCCACCCATGCCATGTCCGGCACCGCCATCCCCATTTCTATGGTC
CTCCTCACCTATGGCCGCTGGCAGTACCCTCTTATATATGGACTGATTCTTATTCCCTGC
TGGTGTTCTCTAGTTTGCCTAAGTAGAATTTACATGGGAATGCACTCTATTCTGGATATT
ATTGCTGGATTCCTATATACCATTTTAATCTTAGCTGTCTTCTATCCATTTGTGGACCTG
ATTGACAACTTCAACCAAACTCACAAATATGCTCCATTCATCATCATCGGGCTTCATTTA
GCTTTGGGGATCTTTTCTTTCACTCTTGACACCTGGAGCACATCCCGAGGAGACACAGCC
GAGATACTAGGAAGTGGTGCTGGAATTGCATGTGGATCTCATGTTACTTATAACATGGGT
CTAGTATTAGATCCTTCTCTAGATACATTACCTTTAGCTGGGCCCCCCATTACTGTGACT
CTGTTTGGAAAAGCCATATTGCGGATCCTCATAGGGATGGTATTTGTACTAATAATCAGA
GATGTAATGAAAAAGATCACCATTCCTTTAGCCTGCAAAATCTTCAATATACCGTGTGAT
GATATTCGAAAAGCAAGACAGCACATGGAAGTTGAACTTCCTTATCGGTATATTACCTAT
GGAATGGTTGGTTTCTCCATCACATTTTTTGTTCCTTACATATTTTTCTTTATTGGTATC
TCTTGA

Clone variation with respect to NM_030791.2

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_030791 unedited
NNNGGTTCGCAATTTTGTCATACGACTCCTATAGGCGGCCGCGNAATTCGCACCAGAAGC
GCTGTGCCGGTTCCGCTGCCGCTGGCCAGGAGCGCGGGGACAGTTCGGGGCTGCGCCGGA
GGCCGGCCCGCCTTCCCGGGGGTTCCGTTATCATGTCGCTGAGGCAGCGCCTGGCCCAGC
TGGTTGGCCGTCTGCAGGACCCGCAGAAAGTGGCCCGTTTCCAGCGGCTGTGCGGGGTGG
AAGCGCCGCCGCGCCGCTCAGCAGACCGGAGGGAGGATGAGAAAGCGGAGGCGCCTCTCG
CCGGAGACCCTCGACTGCGAGGGCGGCAGCCAGGGGCGCCTGGAGGCCCCCAGCCTCCCG
GGAGCGACCGCAATCAGTGCCCGGCCAAGCCGGACGGCGGCGGCGCCCCCAACGGCGTGC
GGAACGGGCTGGCGGCCGAGCTGGGCCCGGCCTCGCCGCGGCGCGCGGGCGCTCTGCGCC
GCAACTCGCTGACGGGCGAGGAGGGCCAGCTGGCCCGCGTGAGCAACTGGCCGCTCTACT
GCCTGTTCTGCTTCGGCACGGAGCTGGGCAACGAACTCTTCTACATCCTGTTCTTCCCCT
TCTGGATCTGGAACCTGGACCCTCTGGTGGGCCGGAGGCTCGTGGTCATCTGGGTGCTGG
TCATGTACCTGNGCCAGTGCACCAAGGACATCATCCGCTGGCCGAGGCCCGCCTCGCCGC
CCGTGGTCAAGTTGGAGGTCTTCTACAACTCTGAGTACAGCATGCCCTCCACCCATGCCA
TGTCCGGCACCGNCATCCCCATTTCTATGGTCCTNCTCACCTATGGCCGCTGGCAGTACC
CTCTTATATATGGACTGATTCTTATCCCTGCTGGNNNGTCTCTAGTTGCCTAAGTAGAAT
TACATGGGAATGCACTCTATTCTGGATATATNGCTGGATCCTATATAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_030791 unedited
GAGCACAAATTATGNTACCGCGCCGCATTCTANGATCGATTTTTTTTTTTTTTTTTTTTT
TAAACTTCAATTTGGGCTTTTAATTTTAAAATACATTTAGCATAGAACTGTCATAGGACA
GAAAATAATAAAACACAAATGGAACATTTTCAAATACCTTTTAAGCTAGACATAAAAATC
AACAGGATAGCATAGGCCCAAATTATGGGAAACGGTCCCTAAAATTCAATTCATTAAACA
TACATTTTGAAAGTAAAGCTCTTTTCACATTTTCCAACGTACCAATATTTTCCTACATGC
CTTGGTTTCCTTTTAACTAATAAGTAAAGGGTAAATTTAGTTGCTTTACTTAAAATTACC
AGCTTCAGTTTTGGTAAAAATTACCATGCCCCTAAATTCTCAATCAGAATTATAAAAATA
TGAGCTCAAATAGTTATGGTGCCCAAAATAGAAACATCTGAAGTGATAGTTCTGGATAAT
CATACAGATATTGCACTAAAATCAGTAATTTCATACCTGGTATTTATTTATATGGAAAGT
TAATCTCTTCTTTATGAAAAACTTTCTACAAATACACTTACTATTAACGTAAGTACAACC
ACACTTCAAAATATAAAGGTAGACAGAAAAAAGAATAGTTTAATACTATACGCAAATTTT
CCACTGTGAAAATAATAGAAAGTTGAAAAAATAATAGGATCTAAAATACTGATACTAATT
TTAGGTTTTATAATTTACCTTAAATAGCCAATAAATGGGTATTAAAAGTTAACGGTGCTA
AATCCAATCCTTCCAAATTATTTAGAAAATGCTTTGTTTACATATGAAGTATGTGCATTG
TCCCATCTATAAATTTCACGTTTCCATTCACTGG

Restriction Sites: NotI-NotI

ACCN: NM_030791

Insert Size: 3500 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
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_030791.2, NP_110418.1
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]