

Product datasheet for **RR208430**

Sgpl1 (NM_173116) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sgpl1 (NM_173116) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sgpl1
Synonyms:	S1PL; Spgl1; spl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR208430 representing NM_173116
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCGAGTACCGACCTTCTCAAGTTGAAGGACTTCGAGCCTTATTTGGAGATTTTGAAGCATATTCCA
 CAAAAGCCAAGAATTACGTGAATGGGTACTGCACCAAATACGAGCCCTGGCAGCTCATTGCGGGGAGTGT
 CCTGTGTAAGTCTGCTGGTAGTCTGGGTATATGAGCTTATCTTCCAGCCAGAGAGTTTATGGTCTCGGTTT
 AAAAAATAATTATTTAGGCTTATAAGGAAGATGCCATTTATTGGACGTAAGATACAACAGCAGCTTACCA
 AAGCCAAGAAGGATCTTGTCAAGAACATGCCATTCCTGAAGTTGGACAAAGATTATGTGAAAACCTGCC
 TGCTCAGGGTCTGAGCACAGCTGAGTTCTGGAGAGACTCAAGGAGTACAGCTCCATGGATGTCTTCTGG
 CAAGAAGGAAAGCCTCAGGAGCTGTGTACAGTGGGGAGCCGAAGCTCACCGAGCTGCTGGTGCAGGCTT
 ACGGAGAATTCAGTGGAGCAATCCACTGCACCCAGATATCTTCCCCGACTACGGAAGTTAGAGGCAGA
 AATCGTAGGATGACTTGTCCCTCTTCAATGGGGGCCAGACTCCTGTGGATGTGTGACTTCTGGGGGA
 ACAGAAAGCATCCTAATGGCCTGCAAAGCATATCGGGACTTGGCCTTAGAGAAGGGGATCAAACCTCCAG
 AAATTGTGGCTCCTGAGAGTGCCACGCCGCTTCGACAAAGCAGCTCATTATTTCCGAATGAAGATTGT
 ACGCGTTGCGCAGAAAAAGAACATGGAGGTGGATGTGCGGGCAATGAAAAGAGCCATCTCCAGGAACACA
 GCCATGCTGGTCTGTTCTGCCCCACAGTTTCTCATGGTGTGATAGATCCTATCCCCGAAGTGGCCAAGC
 TGGCTGTCAAATATAAAATCCCATTCCATGTGGATGCTGTCTTGGGGGCTTCTCATTGTCTTCATGGA
 GAAAGCAGGGTACCCACTGGAGAAACATTTGATTTCCGGGTGAAAGGTGTGACCAGCATTTACAGCAGAT
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 ACCAGTCTTTTGTGATGCAGATTGGCAAGTGGCATCTACGCATCTCCAAGCATAGCTGGCTCACGGCC
 TGGTGGCATCATTGCAGCCTGTTGGCCGCTTGTGATGCACTTTGGTGAAGCGCTATGTTGAAGCTACC
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 GGGATCCTCAATTGTGAGTATTGCTCTGGGCTCCAACGATTTTACATCTACCGACTATCTAATATGAT
 GTCTGCTAAGGGTGGAAATTTAACTACTTGCAGTTCCCAAGAAGCATTCAATTTCTGCATTACGTTAGTA
 CATACTCGAAGCGAGTGGCAATCCAGTTCCTAAAGGATATCCGGGAATCGGTACACAAATCATGAAGA
 ATCCTAAAGCTAAGACCACAGGAATGGTGGCCATCTATGGCATGGCCAGGCAACCATTGACAGGAAGT
 GGTTCAGAAAATCCTCCGTCTTCTTGACAGCCTTTATAGTACAGACCCTGTGACTCAGGGTAACCAG
 ATGAACGGTTCTCAAAGCCCCGC

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTAA

Protein Sequence:

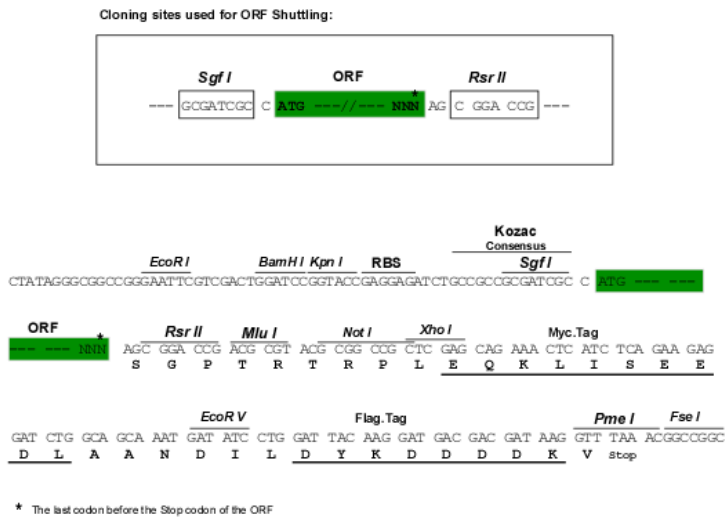
>RR208430 representing NM_173116
 Red=Cloning site Green=Tags(s)

MPSTDLLKLDKDFEPYLEILEAYSTKAKNYVNGYCTKYEPWQLIAGSVLCTLLVVWVYELIFQPESLWSRF
 KNKLFRLIRKMPFIQRKIQQQLTKAKKDLVKNMPFLKLDKDYVKTLPAQGLSTAEVLERLKEYSSMDVFW
 QEGKASGAVYSGEPKLELLVQAYGEFTWSNPLHPDIFPGLRKLAEIVRMTCSLFGGPDSCGCVTSGG
 TESILMACKAYRDLALEKGIKTPDIVAPESAHAADFKAHYFGMKIVRVAQKKNMEVDVRAMKRAISRNT
 AMLVCSAPQFPFGVIDPIPEVAKLAVKYKIPFHVDACLGGFLIVFMEKAGYPLEKPFDFRVKGVTSISAD
 THKYGYAPKGSVVMYSNEKYRKYQFFVDADWQGGIYASPSIAGSRPGGIIAACWAALMHFGENGVYEAT
 KQIIKTARFLKSELENIKNIFILGDPQLSVIALGSNDFDIYRLSNMMSAKGWNFNLYQFPRSIHFCTLV
 HTRKRVAIQFLKDIRESVTQIMKNPKAKTTGMGAIYGMAQATIDRKMVAEISSVFLDSL YSTDPVTQGNQ
 MNGSPKPR

SGP**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_173116

ORF Size: 1704 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](#)

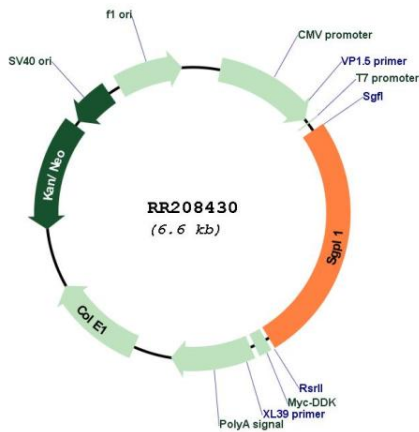
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_173116.1, NP_775139.1</u>
RefSeq Size:	2033 bp
RefSeq ORF:	1707 bp
Locus ID:	286896
UniProt ID:	<u>Q8CHN6</u>
Cytogenetics:	20q11
MW:	63.8 kDa
Gene Summary:	catalyzes the conversion of phosphorylated long chain bases into ethanolamine phosphate and a fatty aldehyde in sphingolipid catabolism [RGD, Feb 2006]

Product images:



Circular map for RR208430