

Product datasheet for **MG205968**

S1pr1 (NM_007901) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	S1pr1 (NM_007901) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	S1pr1
Synonyms:	AI849002; Edg1; Lpb1; S; S1; S1p; S1p1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205968 representing NM_007901 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGTCCACTAGCATCCCGGAGGTTAAAGCTCTCCGCAGCTCAGTCTCTGACTATGGAACTATGATA
TCATAGTCCGGCATTACAACTACACAGGCAAGTTGAACATCGGGGCGGAGAAGGACCATGGCATTAACT
GACTTCAGTGGTGTTCATTCTCATCTGCTGCTTCATCATCCTAGAGAATATATTTGTCTTGCTAACTATT
TGGAAAACCAAGAAGTTCACCGGCCCATGTACTATTTTCATAGGCAACCTAGCCCTCTCGGACCTATTAG
CAGGCGTGGCTTACACAGCTAACCTGCTGTTGTCTGGGGCCACCACTTACAAGCTCACACCTGCCAGTG
GTTTCTGCGGGAAGGGAGTATGTTTGTGGCTCTCTGTCATCAGTCTTACGCCTCCTTGCCATCGCCATT
GAGCGCTACATCACCATGCTGAAGATGAACTACACAACGGGAGCAACAGCTCGCGCTCCTTTCTGCTGA
TCAGCGCCTGCTGGGTACTCTCCCTCATCTGGGGGCGCTGCCATCATGGGCTGGAAGTGCATCAGCTC
GCTGTCTAGTGTCCACCGTGTCCCGCTCTACCACAAGCACTATATTCTTTCTGCACCACCGTCTTC
ACTCTGCTCCTGCTTTCCATCGTCATCCTCTACTGCAGGATCTACTCCTTGGTCAAGGACTCGAAGCCGCC
GCCTGACCTTCCGCAAGAATCTCCAAGGCCAGTCCGAGTCTGAGAAGTCTCTGGCCTTGCTGAAGAC
GGTGATCATTGTCTGAGTGTCTTATTGCCTGCTGGGCCCTCTTTCATCCTACTACTGTTAGATGTG
GGCTGCAAGGCGAAGACCTGTGACATCCTGTACAAGCAGAGTACTTCTGGTTCTGGCTGTGCTGAATC
CAGGTACCAACCCCATCATCTACTCTGACCAACAAGGAGATGCGCCGGCCTTCCATCCGGATCGTATC
TTGTTGAAATGCCCAACGGAGACTCTGCTGGCAAATTCAGAGGCCCATCATCCAGGATGGAATTT
AGCCCGAGCAAATCAGACAACCTCTCTACCCCAAGAGACGATGGGACAACCCAGAGACCATTATGT
CGTCTGGAACGTCAATTCTTCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205968 representing NM_007901
 Red=Cloning site Green=Tags(s)

MVSTSIPEVKALRSSVSDYGNVDIIVRHNYTGKLNIGAEDHGIKLTSVVFILICCFIILENIFVLLTI
 WKTKKFHRPMYYFIGNLALSDLLAGVAYTANLLLSGATTYKLTPAQWFLREGSMFVALSASVFSLLAIAI
 ERYITMLKMKLHNGSNSSRSFLLISACWVLSLILGGLPIMGWNCISLSSCSTVLPYHKHYILFCTTVF
 TLLLLSIVILYCRIYSLVRTRSRRLTFRKNISKASRSSEKSLALLKTVIIVLSVFIACWAPLFILLLLDV
 GCKAKTCDILYKAEYFLVLAVLNSGTNPDIYTLTNKEMRRAFIRIVSCCKCPNGDSAGKFKRPIIPGMEF
 SRKSDNSSHPQKDDGDNPETIMSSGNVNSS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007901

ORF Size: 1146 bp

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: [NM_007901.5](#), [NP_031927.2](#)

RefSeq Size: 3016 bp

RefSeq ORF: 1149 bp

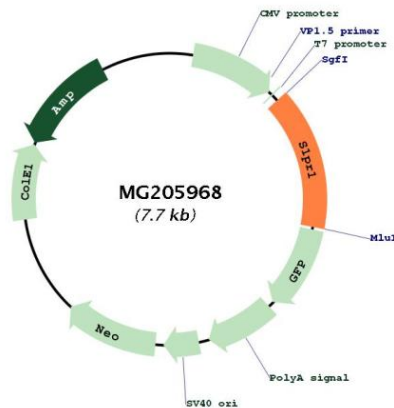
Locus ID: 13609

UniProt ID: [O08530](#)

Cytogenetics: 3 G1

Gene Summary: This gene encodes a G-protein-coupled receptor bound by the lysophospholipid, sphingosine 1-phosphate. The gene product functions in endothelial cells and is involved in vascular and heart development. This receptor is highly expressed in T and B lymphocytes, and it plays a role in T cell and B cell export from peripheral lymphoid organs. This protein is bound and downregulated by FTY720, an exogenous immunosuppressant drug studied in mouse disease models for multiple sclerosis in humans. [provided by RefSeq, Jan 2010]

Product images:



Circular map for MG205968