

Product datasheet for MR205968

S1pr1 (NM_007901) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	S1pr1 (NM_007901) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	S1pr1
Synonyms:	AI849002; Edg1; Lpb1; S; S1; S1p; S1p1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205968 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGTCCACTAGCATCCCGGAGGTTAAAGCTCTCCGCAGCTCAGTCTCTGACTATGGAACTATGATA
TCATAGTCCGGCATTACAACACACAGGCAAGTTGAACATCGGGCGGAGAAGGACCATGGCATTAACT
GACTTCAGTGGTGTTCATTCTCATCTGCTGCTTCATCATCCTAGAGAATATATTTGTCTTGCTAACTATT
TGGAAAACCAAGAAGTTCACCGGCCCATGTACTATTTTCATAGGCAACCTAGCCCTCTCGGACCTATTAG
CAGGCGTGGCTTACACAGCTAACCTGCTGTTGTCTGGGGCCACCACTTACAAGCTCACACCTGCCAGTG
GTTTCTGCGGGAAGGGAGTATGTTTGTGGCTCTCTGTCATCAGTCTTACGCTCCTTGCCATCGCCATT
GAGCGCTACATCACCATGCTGAAGATGAACTACACAACGGGAGCAACAGCTCGCGCTCCTTTCTGCTGA
TCAGCGCTGCTGGGTACATCTCCCTCATCTGGGGGCCCTGCCATCATGGGCTGGAAGTGCATCAGCTC
GCTGTCTAGTGTCCACCGTGTCCCGCTCTACCACAAGCACTAATTCTTTCTGCACCACCGTCTTC
ACTCTGCTCCTGCTTCCATCGTCATCCTCTACTGCAGGATCTACTCCTTGGTCAAGGACTCGAAGCCGCC
GCCTGACCTTCCGCAAGAACATCTCCAAGGCCAGTCGCAGTCTGAGAAGTCTCTGGCCTTGCTGAAGAC
GGTGATCATTGTCTGAGTGTCTTATTGCCTGCTGGGCCCTCTTTCATCCTACTACTGTTAGATGTG
GGCTGCAAGGCGAAGACCTGTGACATCCTGTACAAGCAGAGTACTTCTGGTTCTGGCTGTGCTGAATC
CAGGTACCAACCCCATCATCTACTCTGACCAACAAGGAGATGCGCCGGCCTTCCATCCGGATCGTATC
TTGTTGAAATGCCCAACGGAGACTCTGCTGGCAAATTCAGAGGCCCATCATCCAGGATGGAATTT
AGCCCGAGCAAATCAGACAACCTCCTCTACCCCAAGAGACGATGGGACAACCCAGAGACCATTATGT
CGTCTGGAACGTCAATTCTTCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205968 protein sequence
 Red=Cloning site Green=Tags(s)

MVSTSIPEVKALRSSVSDYGNVDIIVRHNYTGKLNIGAEDHGIKLTSVVFILICCFIILENIFVLLTI
 WKTKKFHRPMYYFIGNLALSDLGAVYATANLLSGATTYKLTPAQWFLREGSMFVALSASVFSLLAIAI
 ERYITMLKMKLHNGSNSSRSFLLISACWVISLILGGLPIMGWNCISLSSCSTVLPYHKHYILFCTTVF
 TLLLLSIVILYCRIYSLVRTRSRLTFRKNISKASRSSEKSLALLKTVIIVLSVFIACWAPLFILLLLDV
 GCKAKTCDILYKAEYFLVAVLNSGTNPPIIYTLTNKEMRRAFIRIVSCCKCPNGDSAGKFKRPIIPGMEF
 SRKSDNSSHPQKDDGDPETIMSSGNVNSSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_007901

ORF Size: 1149 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: 3029 bp

RefSeq ORF: 1149 bp

Locus ID: 13609

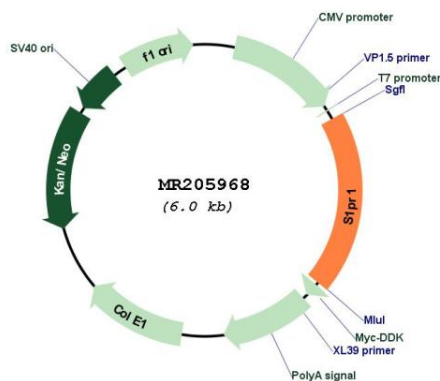
UniProt ID: [O08530](#)

Cytogenetics: 3 G1

MW: 42.6 kDa

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 MR205968