

Product datasheet for MR223211

S1pr2 (NM_010333) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: S1pr2 (NM_010333) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: S1pr2
Synonyms: 110001A16Rik; Edg5; Gpcr13; H218; LPb2; S1P2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR223211 representing NM_010333
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGCGGCTTATACTCAGAGTACCTCAATCCTGAGAAGGTTCTGGAACACTACAATTACACCAAGGAGA
 CGCTGGACATGCAGGAGACCACCTCCCGCAAGGTGGCCTCGGCCTTCATCATCATCTTGTGCTGCGCCAT
 CGTGGTGGAGAATCTTCTGGTGTCTATTGCAGTGGCCAGGAACAGCAAGTCCACTCAGCAATGTACCTG
 TTCCTTGGCAACCTGGCAGCCTCTGACCTGCTGGCAGGCGTGGCCTTCGTGGCCAACACCTTACTCTCAG
 GGCATGTCACTCTGTCTTAACCTCCCGTGCAGTGGTTTGCCGAGAGGGTCCGCCTTCATCAGCTCTC
 CGCCTCGGCTTTAGCCTCCTGGCCATCGCCATCGAGAGACAAGTGGCCCTCGCCAAGGTCAAGCTCTAC
 GGCAGTGACAAAAGCTGCCGAATGCTGATGCTCATCGGGGCTCTTGGCTGATATCGCTGATTCTGGGTG
 GCTTGCCCATCCTGGGCTGGAATTGCTGAACCAGCTGGAGGCCTGCTCCACCGTGTGCTCTCTATGC
 TAAGCACTACGTGCTCTGCGTGGTCAACATCTTCTCCGTATCTTACTGGCTATCGTGGCTCTGTACGTC
 CGAATCTACTTTGTAGTCCGCTCCAGCCACGCGGATGTTGCTGGTCTCAGACGCTAGCCCTGCTCAAGA
 CGGTCAACATCGTACTGGGTGTTTTATCATCTGCTGGTGGCCTTTAGCATCCTTCTCTTAGACTC
 CACCTGTCCCGTTCGGGCTGCCCTGTCTCTACAAAGCCCACTATTTTTTGCCTTTGCCACCCCTAAC
 TCACTGCTCAATCCTGTATCTATACGTGGCGTAGCCGGACCTTCGGAGGGAGGTGCTGCGGCCCTGC
 AGTGTGGCGGAGAGGAAGGGAGTGACGGGACGACAGAGGTGGGAACCCTGGTCAACGACTCCTGCCTCT
 CCGCAGCTCCAGCTCCCTGGAGAGGCGATGCATATGCCTACATCACCGACATTTCTGGAGGGTAACACA
 GTGGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR223211 representing NM_010333
 Red=Cloning site Green=Tags(s)

MGGLYSEYLNPEKVL EHYNYTKETLDMQETT SRKVASAF I IILCCAIVVENLLVLI AVARN SKFHSAMY L
 FLGNLAASDLLAGVAFVANTLLSGHVTL SLTPVQWFAREGSAF I T L SASVFSLLAIAIERQVALAKVKLY
 GSDKSCRMLMLIGASWLSLILGGLPILGWNCLNQLEACSTVLPYAKHYVLCVVTIFSVILLAIVALYV
 RIYFVVRSSHADVAGPQTLALLKTVTIVLGVFIICWLPAFSILLLDSTCPVRACPVLYKAHYFFAFATLN
 SLLNPVIYTWRSRDLRREVLRLPQCWRRGKGV TGRRGGNPGHRLPLRSSSSSLERGMHMPTSPTFLEGNT
 VV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_010333

ORF Size: 1056 bp

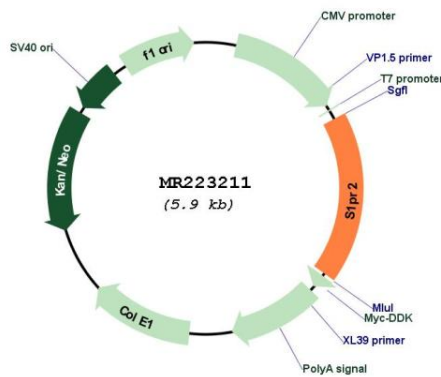
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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:	<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:	<u>NM_010333.4, NP_034463.2</u>
RefSeq Size:	2815 bp
RefSeq ORF:	1059 bp
Locus ID:	14739
UniProt ID:	<u>P52592</u>
Cytogenetics:	9 7.68 cM
MW:	39.3 kDa
Gene Summary:	Receptor for the lysosphingolipid sphingosine 1-phosphate (S1P) (By similarity). S1P is a bioactive lysophospholipid that elicits diverse physiological effects on most types of cells and tissues (By similarity). Receptor for the chemokine-like protein FAM19A5 (By similarity). Mediates the inhibitory effect of FAM19A5 on vascular smooth muscle cell proliferation and migration (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223211