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Product datasheet for MR206289

S1pr5 (NM_053190) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	S1pr5 (NM_053190) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	S1pr5
Synonyms:	Edg8; lpB4; S1P5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR206289 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCCCGGGCTGCTGCGGCCGGCGCCGGTGAGTGAGGTTATTGTCCTTCACTACAACTACACCGGCA
AGCTCCGCGGGGCGCGCTACCAGCCCGGCGCCGGCCTGCGCGCAGACGCCGCAGTGTGTCTGGCTGTGTG
TGCCTTCATTGTGCTGGAGAACTTGGCTGTGCTCTTGGTGCTGGTCCGCCACCCTCGCTTCCATGCGCCC
ATGTTTCTGCTCCTTGGCAGCCTCACTTTGTCGGACCTGCTCGCCGGGGCGGCCTACGCCACCAACATCC
TACTGTCCGGGCCGCTCACGCTGCGCCTGTCGCCTGCGCTTTGGTTTGCGCGTGAGGGGGGCGTCTTCGT
GGCGCTCGCCGCGTCGGTGCTGAGCCTCTTGGCCATTGCTTTAGAGCGCCACCTTACCATGGCCCGTCGT
GGACCCGCACCCGCCGCCAGTCGCGCTCGCACGCTGGCAATGGCGGTGGCCGCCTGGGGCGCGTCGCTAT
TGCTCGGGCTGCTACCCGCGCTGGGCTGGAACTGCTTAGGACGCCTGGAAACCTGCTCCACCGTGCTGCC
GCTCTACGCCAAGGCCTATGTGCTCTTCTGCGTGCTGGCCTTCCTGGGCATCCTGGCTGCCATCTGTGCG
CTCTATGCAAGGATTTACTGTCAGGTGCGGGCCAACGCGCGTCGCCTGCGGGCGGGTCCTGGGTCCCGCA
GGGCCACCTCGTCCTCGCGATCCCGGCACACGCCGCGGTCGCTGGCCCTGCTTCGTACCCTTAGCGTGGT
GCTCCTGGCCTTCGTGGCCTGCTGGGGACCGCTGTTTCTCTTGCTATTACTGGATGTCGCGTGCCCAGCC
CGCGCGTGTCCCGTGCTCCTGCAGGCCGATCCCTTCCTGGGTCTAGCCATGGCTAACTCGCTGCTGAATC
CCATCATCTACACCTTCACCAACCGAGATCTGCGCCACGCGCTCCTGCGGCTGCTCTGCTGTGGCCGCGG
ACCCTGCAACCAAGACTCCTCCAACAGCTTGCAGCGATCCCCCAGTGCTGCCGGGCCTTCCGGTGGTGGC
CTGCGACGCTGCCTGCCACCAACCTTGGATCGCAGCTCTAGCCCATCAGAACACTTGTCTCCCCAGCAGG
ACGGGGTGGACACCAGCTGCTCCACCGGCAGTCCTGGAGTAGCAACCGCCAACCGGAGCCTGGTGCCTAC
TGCTACAGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

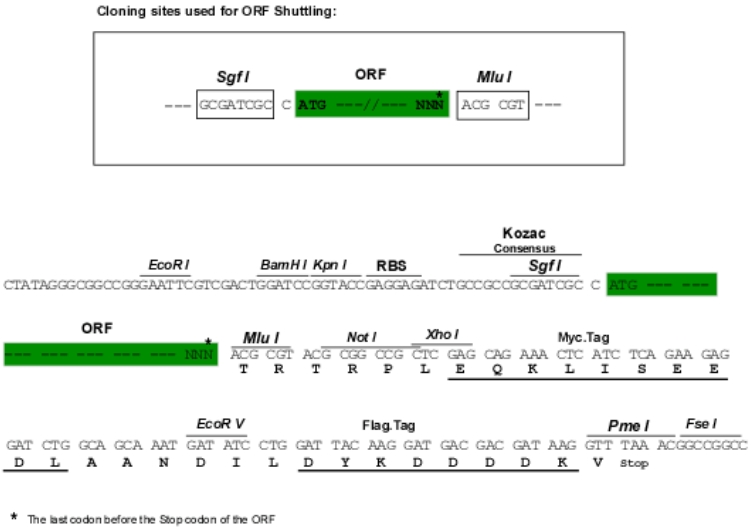
>MR206289 protein sequence
Red=Cloning site Green=Tags(s)

MEPGLLRPAPVSEVIVLHYNYTGKLRGARYQPGAGLRADAAVCLAVCAFIVLENLAVLLVLVRHPRFHAP
MFLLLGSLTLSDLLAGAAYATNILLSGPLTLRLSPALWFAREGGVFVALAASVLSLLAIALERHLTMARR
GPAPAASRARTLAMAVAAWGASLLLGLLPALGWNCLGRLETCSTVLPLYAKAYVLFCVLAFLGILAAICA
LYARIYCQVRANARRLRAGPGSRRATSSSRSRHTPRSLALLRTLSVVLLAFVACWGPLFLLLLLDVACPA
RACPVLLQADPFLGLAMANSLLNPIIYTFTNRDLRHALLRLLCCGRGPCNQDSSNSLQRSPSAAGPSGGG
LRRCLPPTLDRSSSPSEHLSPQQDGVDTSCSTGSPGVATANRSLVPTATD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_053190

ORF Size: 1203 bp

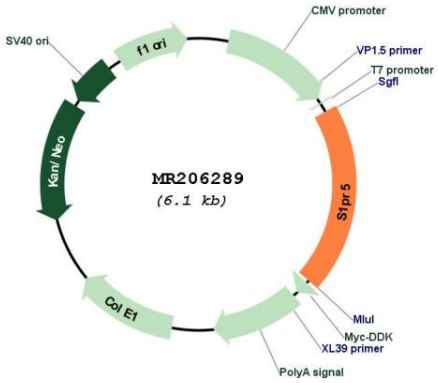
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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:	NM_053190.1, NP_444420.1
RefSeq Size:	2512 bp
RefSeq ORF:	1203 bp
Locus ID:	94226
UniProt ID:	Q91X56
Cytogenetics:	9 A3
MW:	42.3 kDa
Gene Summary:	Receptor for the lysosphingolipid sphingosine 1-phosphate (S1P). S1P is a bioactive lysophospholipid that elicits diverse physiological effect on most types of cells and tissues. Is coupled to both the G(i/0)alpha and G(12) subclass of heteromeric G-proteins (By similarity). S1P activation on oligodendroglial cells modulates two distinct functional pathways mediating either process retraction or cell survival. S1P activation on O4-positive pre-oligodendrocytes induces process retraction via a Rho kinase/collapsin response-mediated protein signaling pathway. The S1P-induced survival of mature oligodendrocytes is mediated through a pertussis toxin-sensitive, Akt-dependent pathway. S1P activation on oligodendroglial cells modulates two distinct functional pathways mediating either process retraction or cell survival. These effects depend on the developmental stage of the cell.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206289