

## Product datasheet for **MC204585**

### **S1pr5 (NM\_053190) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	S1pr5 (NM_053190) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	S1pr5
Synonyms:	Edg8; lpB4; S1P5
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC012232  
 CGATAACCTTGAAGTCTGATCCTCCGCTGGCAATTGCTGGGGAACCGGTGTACACCAAATGCCAGCTT  
 ACTCCCCCAGATTTCCAATAGCCGCTCTCCTGTGTCTGCTTCTGGAGTGCCGGTTACAGGAGACTTTTG  
 CACAGTGTCCAGTGGACGACCGGCAGGACACAGCAGCGACATCTCCGCGCGGGCGCGGGCAGCCCAT  
 GGAGCCCCGGGTGCTGCGGCCGGCGCCGGTGAGTGAGGTTATTGTCTTCACTACAACACTACACGGCAAG  
 CTCCGCGGGGCGCGCTACCAGCCCGCGCCGGCTGCGCGCAGACGCCGAGTGTGTCTGGCTGTGTGTG  
 CTTTCATTGTGCTGGAGAACTTGGCTGTGCTCTTGGTGTGGTCCGCCACCCTCGCTTCCATGCGCCCAT  
 GTTTCTGCTCCTTGGCAGCCTCACTTTGTGCGACCTGCTCGCCGGGCGGCCTACGCCACCAACATCCTA  
 CTGTCCGGGCGCTCACGCTGCGCTGTGCGCTTGTGTTTGGCGGTGAGGGGGCGTCTTCGTGG  
 CGCTCGCCGCGTCCGGTGTGAGCCTCTTGGCATTGCTTTAGAGCGCCACCTTACCATGGCCCGTGTGG  
 ACCCGCACCCGCGCCAGTCCGCTCGCACGCTGGCAATGGCGGTGGCCGCTGGGGCGCGTGTGCTATTG  
 CTCGGGCTGTACCCGCGCTGGGCTGGAAGTCTTAGGACGCTGGAAACCTGCTCCACCGTGTGCCGC  
 TCTACGCCAAGGCCTATGTCTCTTCTGCGTGTGGCCTTCTGGGCATCCTGGTGCCATCTGTGCGCT  
 CTATGCAAGGATTTACTGTCAGGTGCGGGCAACGCGCGTGCCTGCGGGCGGGTCTGGGTCCCGCAGG  
 GCCACCTCGTCTCGCATCCCGCACACGCGCGGTGCTGGCCCTGCTTCGTACCCTTAGCGTGGTGC  
 TCCTGGCCTTCTGTCGCTGCTGGGGACCCTGTTTCTTGTCTTACTGGATGTGCGGTGCCAGCCCG  
 CGCGTGTCCCGTCTCCTGCAGGCCGATCCCTTCTGGGTCTAGCCATGGCTAACCTGCTGCTGAATCCC  
 ATCATCTACACCTTACCAACCGAGATCTGCGCCACGCGCTCCTGCGGTGCTCTGCTGTGGCCGCGGAC  
 CCTGCAACCAAGACTCCTCCAACAGCTTGCAGCGATCCCCAGTGTGCCGGGCTTCCGGTGGTGGCCT  
 GCGACGCTGCCTGCCACCAACCTTGGATCGCAGCTTAGCCCATCAGAACACTTGTCTCCCAGCAGGAC  
 GGGGTGGACACAGCTGCTCCACCGCAGTCTGGAGTAGCAACCGCAACCGGAGCCTGGTGCCTACTG  
 CTACAGACTGACGCTTCCCAACCCTTGAAGAAGCAGACTGACTCGCAAATAAGCGCATCATCTGTAGG  
 AAATAGCCAGCGACGGAGGGGGACATAACAAGAAAGGAAAGTGATTGATACCCCATACAAGAACA  
 GACAAAAATGCACTCGGGATCTGAGATGGACAATAAGGGAAAGAAGAAAGTGATGAGAAGGTATCCAGGT  
 AGTGGAACCTAAGCTGGGAAGCCCTGAAGGAGAGCCATTCCATATGGCTGCAGCAGAAATTGAGGAGCAG  
 GAGATGAAAGGGCAGGTTGTGGGAAAGTCTTGTGGTCTGAGGAAGTCTTAGGTTTGGCTCTGAGTGA  
 AGTGGGAGCCATAGAGAAATTCTAAACAAAGGAGGGACTCTCCTGGATTGAGACTCCACAGGTACCCTGT  
 GACTACCAAAGTTCAAGGGGAATGGCTAAAAGATGAAGGGATAAAGGAGAGCGGGCTCCAAGAATGCTC  
 AGAACCAGGTGATGTCTAGATAAGAGTGTGCTAAGGGCTGGCAGGAGTAGTGGTGGCTACAGAGGAAAC  
 AGAGCTGTGGACAAAGGTAAGCCTAGGTCTGAAAATTTGGCTCTGGAGACTGTCAGATATCAGCTGCCAA  
 ACTTCCAGAGTGTGGACAGGTTTTCATACAAATTACAACCACAATAAAAACAATTCAAGGAGTTGTCT  
 TACTGGGATCTTTCAGAACTATTTCATTATCTATTGATTTTTTTTTTAAATTTTCCCCCAGAAAGTTGTA  
 ACTATCCTCTTTAAAAGTGTATTTATTTGGGGTTGGAGAGATGGCTCAGCAGTTAAGAACAATTGTTAC  
 CCTTGCAGGGGACCTGTGTTCCATTCCCAGCACCAAGTGGTATTCTGGCAACTCAGTTCCAAGGTTA  
 TCTGATGCCCTCATCTGACCTCTGAGGGCACCAGGCATGCACATGGTACAAAGATTGAATGCAGGCAAAA  
 CTCTCATACAAACAAGCTAAATAAATCTTTTAAAATGTTAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_053190  
**Insert 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](mailto: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](#)

**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:** [BC012232](#), [AAH12232](#)

**RefSeq Size:** 2437 bp

**RefSeq ORF:** 1203 bp

**Locus ID:** 94226

**UniProt ID:** [Q91X56](#)

**Cytogenetics:** 9 A3

**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/o)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]