

Product datasheet for **RG210163**

S1PR2 (NM_004230) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	S1PR2 (NM_004230) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	S1PR2
Synonyms:	AGR16; DFNB68; EDG-5; EDG5; Gpcr13; H218; LPB2; S1P2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210163 representing NM_004230 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCAGCTTGTACTCGGAGTACCTGAACCCCAACAAGGTCCAGGAACACTATAATTATACCAAGGAGA
CGCTGGAAACGCAGGAGACGACCTCCCGCCAGGTGGCCTCGGCCCTTCATCGTCATCCTCTGTTGCGCCAT
TGTGGTGGAAAACCTTCTGGTGTCTATTGCGGTGGCCGAAACAGCAAGTCCACTCGGCAATGTACCTG
TTTCTGGCAACCTGGCCGCTCCGATCTACTGGCAGGCGTGGCCTTCGTAGCCAATACCTTGCTCTCTG
GCTCTGTCACGCTGAGGCTGACGCTGTGCAGTGGTTTGCCGGGAGGGCTCGCCTTCATCAGCTCTC
GGCCTCTGCTTTCAGCCTCCTGGCCATCGCCATTGAGCGCCACGTGGCCATTGCCAAGGTCAAGCTGTAT
GGCAGCGACAAGAGCTGCCGCATGCTTCTGCTCATCGGGGCTCGTGGCTCATCTCGCTGGTCTCGGTG
GCCTGCCCATCCTTGGCTGGAAGTGCCTGGGCCACCTCGAGGCCTGCTCCACTGTCTGCCTCTCTACGC
CAAGCATTATGTGCTGTGCGTGGTGACCATCTTCTCCATCATCTGTTGGCCATCGTGGCCCTGTACGTG
CGCATCTACTGCGTGGTCCGCTCAAGCCACGCTGACATGGCCGCCCGCAGACGCTAGCCCTGCTCAAGA
CGGTACCATCGTGTAGGCGTCTTATCGTCTGCTGGCTGCCCGCCTTCAGCATCCTCCTTCTGGACTA
TGCTGTCCCGTCCACTCCTGCCGATCCTCTACAAAGCCCACTACTTTTTCGCCGTCTCCACCCCTGAAT
TCCCTGCTCAACCCGTCATCTACAGTGGCGCAGCCGGGACCTGCGGCGGGAGGTGCTTCGGCCGCTGC
AGTGTGCGCGCCGGGGTGGGGTGCAAGGACGAGGCGGGTGGGACCCCGGGCCACCATCCTGCC
ACTCCGACAGTCCAGCTCCCTGGAGAGGGCATGCACATGCCACGTACCCACGTTTCTGGAGGGCAAC
ACGGTGGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210163 representing NM_004230
 Red=Cloning site Green=Tags(s)

MGSLYSEYLNPNKVQEHYNYTKETLETQETTSRQVASAFIVILCCAIVVENLLVLIAVARNKSFHSAMYL
 FLGNLAASDLLAGVAFVANTLLSGSVTLRLTPVQWFAREGSAFITLSASVFSLLAIAIERHVAIAKVKLY
 GSDKSCRMLLLIGASWLSLVLGGLPILGWNCLGHLEACSTVLPYAKHYVLCVVTIFSIILLAIIVALYV
 RIYCVVRS SHADMAAPQTLALLKTVTIVLGVFIVCWLPAFSILLLDYACPVHSCPILYKAHYFFAVSTLN
 SLLNRPVIYTWRSRDLRREVLRLPLQCWRPVGVGQRRRVGTPGHLLPLRSSSSLERGMHMPTSPTFLEGN
 TVV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004230

ORF Size: 1059 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_004230.2](#), [NP_004221.2](#)

RefSeq Size: 1154 bp

RefSeq ORF: 1062 bp

Locus ID: 9294

UniProt ID: [O95136](#)

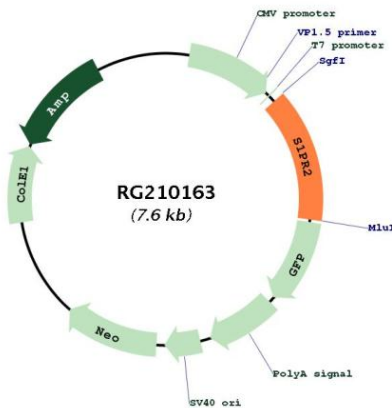
Cytogenetics: 19p13.2

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

Gene Summary: This gene encodes a member of the G protein-coupled receptors, as well as the EDG family of proteins. The encoded protein is a receptor for sphingosine 1-phosphate, which participates in cell proliferation, survival, and transcriptional activation. Defects in this gene have been associated with congenital profound deafness. [provided by RefSeq, Mar 2016]

Product images:



Circular map for RG210163