

Product datasheet for **RG228874**

EDG8 (S1PR5) (NM_001166215) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EDG8 (S1PR5) (NM_001166215) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EDG8
Synonyms:	Edg-8; EDG8; S1P5; SPPR-1; SPPR-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG228874 representing NM_001166215 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGTCGGGGCTGCTGCGGCCGGCGCCGGTGAGCGAGGTCATCGTCCTGCATTACAACACTACCCGGCA
AGCTCCGCGGTGCGCGCTACCAGCCGGTGCCGGCCTGCGCGCCGACGCCGTGGTGTGCCTGGCGGTGTG
CGCCTTTCATCGTCTAGAGAATCTAGCCGTGTTGTTGGTCTCGGACGCCACCCGCGCTCCACGCTCC
ATGTTCTGCTCCTGGGAGCCTCACGTTGTGGATCTGCTGGCAGGCGCCGCTACGCCCAACATCC
TACTGTGGGGCCGCTCACGCTGAAACTGTCCCCGCGCTCTGGTTCGCACGGGAGGGAGCGCTTCTCGT
GGCACTCACTGCGTCCGTGCTGAGCCTCCTGGCCATCGCGCTGGAGCGCAGCCTCACCATGGCGCGCAGG
GGCCCCGCGCCGCTCCAGTCGGGGGCGCACGCTGGCGATGGCAGCCGCGCCCTGGGGCGTGTGCTGTC
TCTCGGGCTCCTGCCAGCGCTGGGCTGGAATTGCCTGGGTGCGCTGGACGCTTGTCTCACTGTCTTGCC
GCTCTACGCCAAGGCCTACGTGCTCTTCTGCGTGTGCTGCGCTTCTGGGATCCTGGCCGCGATCTGTGCA
CTCTACGCGCGCATCTACTGCCAGGTACGCGCCAACGCGCGGCGCCTGCCGGCACGGCCCGGACTGCGG
GGACCACCTCGACCCGGGCGCGTCGAAGCCGCGCTCGCTGGCCTTGCTGCGCACGCTCAGCGTGGTGTG
CCTGGCCTTTGTGGCATGTTGGGGCCCCCTTCTCTGCTGCTGTGCTCGACGTGGCGTGGCCGGCGCGC
ACCTGTCTGTACTCCTGCAGGCCGATCCCTTCTGGGACTGGCCATGGCCAACACTCTGAACCCCA
TCATCTACACGCTCACCACCGGACCTGCGCCACGCGCTCCTGCGCCTGGTCTGCTGCGGACGCCACTC
CTGCGGCAGAGACCCGAGTGGCTCCAGCAGTCGGCGAGCGCGGCTGAGGCTTCCGGGGGCTGCGCCGC
TGCTGCCCGGGCCTTGTGAGGACTTACGCGGCTCGGAGCGCTCATCGCCCCAGCGCAGCGGCTGG
ACACCAGCGGCTCCACAGGCAGCCCCGGTGCACCCACAGCCCGGACTCTGGTATCAGAACCGGCTGC
AGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG228874 representing NM_001166215
Red=Cloning site Green=Tags(s)

MESGLLRPAPVSEVIVLHNYTGKLRGARYQPGAGLRADAVVCLAVCAFI VLENLAVLLVLRHPRFHAP
 MFLLLGSLT LSDLLAGAAYAANILL SGPLTLKLSPALWFAREGGVFVAL TASVLSLLAIALERSLTMARR
 GPAPVSSRGRTLAMAAAAGVSLLLGLLPALGNCLGRLDACSTVLPYAKAYVLCVLA FVGI LA AICA
 LYARIYCQVRANARRLPARPGTAGTTSTRARRKPRSLALLRTL SVVLLAFVACWGPL FLLLLLDVACPAR
 TCPVLLQADPFLGLAMANSLLNPIIYTLTNRDLRHALLRLVCCGRHSCGRDP SGSSQASASAAEASGLRR
 CLPPGLDGSFSGSERSSPQRDGLDTSGSTGSPGAPTAARTLVSEPAAD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001166215

ORF Size: 1194 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_001166215.1](#), [NP_001159687.1](#)

RefSeq Size: 2467 bp

RefSeq ORF: 1197 bp

Locus ID: 53637

UniProt ID: [Q9H228](#)

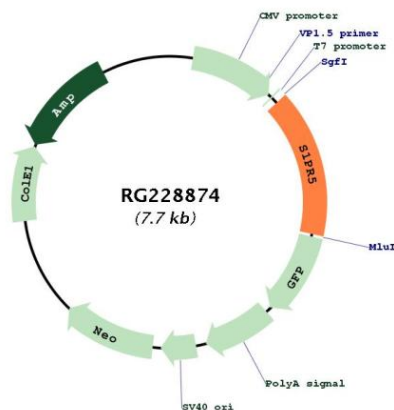
Cytogenetics: 19p13.2

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

Gene Summary: The lysosphingolipid sphingosine 1-phosphate (S1P) regulates cell proliferation, apoptosis, motility, and neurite retraction. Its actions may be both intracellular as a second messenger and extracellular as a receptor ligand. S1P and the structurally related lysolipid mediator lysophosphatidic acid (LPA) signal cells through a set of G protein-coupled receptors known as EDG receptors. Some EDG receptors (e.g., EDG1; MIM 601974) are S1P receptors; others (e.g., EDG2; MIM 602282) are LPA receptors.[supplied by OMIM, Mar 2008]

Product images:



Circular map for RG228874