

Product datasheet for **RG209253**

EDG3 (S1PR3) (NM_005226) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EDG3 (S1PR3) (NM_005226) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EDG3
Synonyms:	EDG-3; EDG3; LPB3; S1P3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209253 representing NM_005226 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAACTGCCCTCCCGCCGCTCTCCAGCCGGTGC GG GGAACGAGACCCTGCCGGAGCATTACCAGT
ACGTGGGGAAGTTGGCGGCAGGCTGAAGGAGGCTCCGAGGGCAGCACGCTCACCACCGTGCTCTTCTT
GGTCATCTGCAGCTTCATCGTCTGGAGAACCTGATGGTTTTGATTGCCATCTGGAAAAACAATAAATTT
CACAACCGCATGTACTTTTTTCATTGGCAACCTGGCTCTCTGCGACCTGCTGGCCGGCATCGCTTACAAGG
TCAACATTCTGATGTCTGGCAAGAAGACGTTTCAGCCTGTCTCCACGGTCTGGTTCCTCAGGGAGGGCAG
TATGTTTCGTGGCCCTTGGGGCGTCCACCTGCAGCTTACTGGCCATCGCCATCGAGCGGCACTTGACAATG
ATCAAAATGAGGCCTTACGACGCCAACAAGAGGCCACCGCTCTTCTCCTGATCGGGATGTGCTGGCTCA
TTGCCCTCACGCTGGGCGCCCTGCCCATTTCTGGGCTGGAAGTGCCTGCACAATCTCCCTGACTGCTCTAC
CATCCTGCCCTCTACTCCAAGAAGTACATTGCCTTCTGCATCAGCATCTTACCGCCATCCTGGTGACC
ATCGTGATCCTCTACGCACGCATCTACTTCTGGTGAAGTCCAGCAGCCGTAAGGTGGCCAAACCACAACA
ACTCGGAGCGGTCCATGGCACTGCTGCGGACCGTGGTATTGTGGTGAGCGTGTTTCATCGCTGCTGGTC
CCCCTCTTATCCTCTTCTCATTGATGTGGCCTGCAGGGTGCAGGCGTGCCCCATCCTCTTCAAGGCT
CAGTGGTTCATCGTGTGGCTGTGCTCAACTCCGCCATGAACCCGGTCACTACAGCTGGCCAGCAAGG
AGATGCGGCGGGCTTCTCCGTCTGGTCTGCAACTGCCTGGTCAAGGGACGGGGGCCCGCCCTCACC
CATCCAGCCTGCGCTCGACCCAAGCAGAAGTAAATCAAGCAGCAGCAACAATAGCAGCCACTCTCCGAAG
GTCAAGGAAGACCTGCCACACAGCCCTCATCCTGCATCATGGACAAGAACGCAGCACTTCAGAATG
GGATCTTCTGCAAC

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209253 representing NM_005226
 Red=Cloning site Green=Tags(s)

MATALPPRLQPVRGNETLREHYQYVVKLAGRLKEASEGSTLTTVLFLVICSFIVLENLMVLI AIWKNNKF
 HNRMYFFIGNLALCDLLAGIAYKVNILMSGKTFSLSPTVWFLREGSMFVALGASTCSLLAIAIERHLTM
 IKMRPYDANKRHRVFL IGMCWLI AFTLGALPILGWNCLHNLPCSTILPLYSKKYIAFCISIFTAILVT
 IVILYARIYFLVKSSSRK VANHNNSERSMALLRTVVIVVSVFIACWSPLFILFLIDVACRVQACPILFKA
 QWFIVLAVLNSAMNPVIYTLASKEMRRAFFRLVCNCLVRGRGARASPIQPALDPSRSKSSSSNSSHSPK
 VKEDLPHTAPSSCIMDKNAALQNGIFCN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005226

ORF Size: 1134 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_005226.4](#)

RefSeq Size: 4221 bp

RefSeq ORF: 1137 bp

Locus ID: 1903

UniProt ID: [Q99500](#)

Cytogenetics: 9q22.1

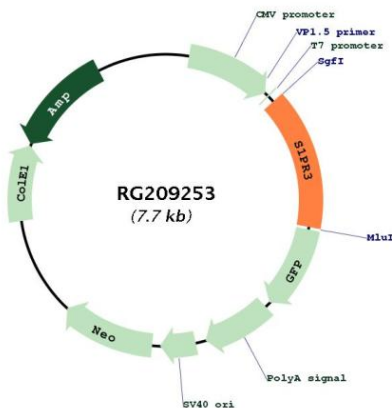
Domains: 7tm_1

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

Gene Summary: This gene encodes a member of the EDG family of receptors, which are G protein-coupled receptors. This protein has been identified as a functional receptor for sphingosine 1-phosphate and likely contributes to the regulation of angiogenesis and vascular endothelial cell function. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG209253