

Product datasheet for **RG204608**

EDG1 (S1PR1) (NM_001400) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EDG1 (S1PR1) (NM_001400) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EDG1
Synonyms:	CD363; CHEDG1; D1S3362; ECGF1; EDG-1; EDG1; S1P1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204608 representing NM_001400 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCCACCAGCGTCCCGCTGGTCAAGGCCACCGCAGCTCGGTCTCTGACTACGTCAACTATGATA
TCATCGTCCGGCATTACAACACACGGGAAAGCTGAATATCAGCGCGGACAAGGAGAACAGCATTAACT
GACCTCGGTGGTGTTCATTCTCATCTGCTGCTTTATCATCCTGGAGAACATCTTTGTCTTGCTGACCATT
TGGAAAACCAAGAAATCCACCGACCCATGTAATTTTTATTGGCAATCTGGCCCTCTCAGACCTGTTGG
CAGGAGTAGCCTACACAGCTAACCTGCTTGTCTGGGGCCACCCTACAAGCTCACTCCCGCCAGTG
GTTTCTGCGGGAAGGGAGTATGTTTGTGGCCCTGTGAGCCTCCGTGTTCACTCTCCTCGCCATCGCCATT
GAGCGCTATATCAATGCTGAAAATGAACTCCACAACGGGAGCAATAACTCCGCCTCTTCTGCTAA
TCAGCGCCTGCTGGGTCACTCCCTCATCTGGGTGGCCCTGCCTATCATGGGCTGGAAGTGCATCAGTGC
GCTGTCCAGCTGCTCCACCGTGTGCCGCTCTACCACAAGCACTATATCCTCTTCTGCACCACGGTCTTC
ACTCTGCTTCTGCTCTCCATCGTCATTCTGTAAGTGCAGAACTACTCCTTGGTCAAGGACTCGGAGCCGCC
GCCTGACGTTCCGCAAGAACATTTCAAGGCCAGCCGAGCTCTGAGAAGTCGCTGGCGTGTCTCAAGAC
CGTAATTATCGTCTGAGCGTCTTCATCGCCTGCTGGGACCGCTCTTCATCCTGCTCCTGCTGGATGTG
GGCTGCAAGGTGAAGACCTGTGACATCCTCTTCAAGGCGGAGTACTTCTGGTGTAGCTGTGCTCACT
CCGGCACCAACCCATCATTACACTCTGACCAACAAGGAGATGCGTCCGGCCTTCATCCGGATCATGTC
CTGCTGCAAGTGGCCGAGCGGAGACTCTGCTGGCAAATTAAGCGACCCATCATCGCCGGCATGGAATTC
AGCCCGACAAATCGGACAATTCCTCCACCCCAAGAACGAAGGGGACAACCCAGAGACCATTATGT
CTTCTGGAACGTCAACTCTTCTTCC

AC**CGGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204608 representing NM_001400
 Red=Cloning site Green=Tags(s)

MGPTSVPLVKAHRSSVSDYVNYDIIVRHNYTGKLNISADKENSIKLTSVVFILICCFIILENIFVLLTI
 WKTKKFHRPMYYFIGNLALSDLLAGVAYTANLLLSGATTYKLTTPAQWFLREGSMFVALSASVFSLLAIAI
 ERYITMLKMKLHNGSNFRLFLLLISACWVLSLILGGLPIMGWNCISALSSCSTVLPYHKHYILFCTTVF
 TLLLLSIVILYCRIYSLVRTRSRRLTFRKNISKASRSSEKSLALLKTVIIVLSVFIACWAPLFILLLLDV
 GCKVKTCDILFRAEYFLVLAVLNSGTNPPIIYTLTNKEMRRAFIRIMSCCKCPSGDSAGKFKRPIIAGMEF
 SRKSDNSSHPQKDEGDNPETIMSSGNVNSS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001400

ORF Size: 1146 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_001400.5](#)

RefSeq Size: 2753 bp

RefSeq ORF: 1149 bp

Locus ID: 1901

UniProt ID: [P21453](#)

Cytogenetics: 1p21.2

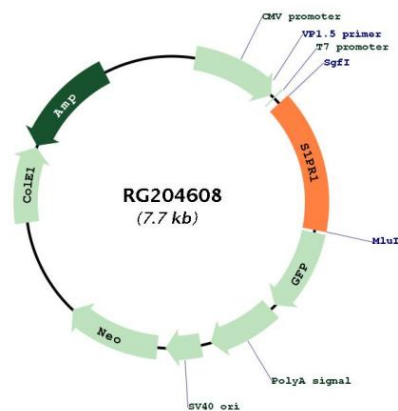
Domains: 7tm_1

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

Gene Summary: The protein encoded by this gene is structurally similar to G protein-coupled receptors and is highly expressed in endothelial cells. It binds the ligand sphingosine-1-phosphate with high affinity and high specificity, and suggested to be involved in the processes that regulate the differentiation of endothelial cells. Activation of this receptor induces cell-cell adhesion. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016]

Product images:



Circular map for RG204608