

## Product datasheet for **RG204583**

### EDG8 (S1PR5) (NM\_030760) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EDG8 (S1PR5) (NM_030760) 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:	>RG204583 representing NM_030760 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGTCGGGGCTGCTGCGGCCGGCGCCGGTGAGCGAGGTCATCGTCCTGCATTACAACACTACCCGGCA  
AGCTCCGCGGTGCGCGCTACCAGCCGGTGCCGGCCTGCGCGCCGACCCGCGTGGTGTGCCTGGCGGTGTG  
CGCCTTCATCGTCTAGAGAATCTAGCCGTGTTGTTGGTCTCGGACGCCACCCGCGCTCCACGCTCCC  
ATGTTCTGCTCCTGGGAGCCTCACGTTGTGGATCTGCTGGCAGGCGCCGCTACGCCCAACATCC  
TACTGTGGGGCCGCTCACGCTGAAACTGTCCCCGCGCTCTGGTTCGCACGGGAGGGAGGCGTCTTCGT  
GGCACTCACTGCGTCCGTGCTGAGCCTCCTGGCCATCGCGCTGGAGCGCAGCCTCACCATGGCGCGCAGG  
GGCCCCGCGCCGCTCCAGTCGGGGGCGCACGCTGGCGATGGCAGCCGCGCCCTGGGGCGTGTGCTGTC  
TCCTCGGGCTCCTGCCAGCGCTGGGCTGGAATTGCCTGGGTGCGCTGGACGCTTGTCTCACTGTCTTGCC  
GCTCTACGCCAAGGCCTACGTGCTCTTCTGCGTGTGCTGCGCTTCTGGGCACTCCTGGCCGCGATCTGTGCA  
CTCTACGCGCGCATCTACTGCCAGGTACGCGCAACGCGCGGCGCCTGCCGGCACGGCCCGGACTGCGG  
GGACCACCTCGACCCGGGCGCGTCGAAGCCGCGCTCGCTGGCCTTGCTGCGCACGCTCAGCGTGGTGTCT  
CCTGGCCTTTGTGGCATGTTGGGGCCCCCTCTTCTGCTGCTGTGCTCGACGTGGCGTGGCCGGCGCGC  
ACCTGCTCTGACTCCTGCAGGCCGATCCCTTCTGGGACTGGCCATGGCCAACACTTCTGAACCCCA  
TCATCTACACGCTCACCACCGGACCTGCGCCACGCGCTCCTGCGCCTGGTCTGCTGCGGACGCCACTC  
CTGCGGCAGAGACCCGAGTGGCTCCAGCAGTCGGCGAGCGCGGCTGAGGCTTCCGGGGGCTGCGCCGC  
TGCTGCCCGGGCCTTGTGAGGACTTACGCGGCTCGGAGCGCTCATCGCCCCAGCGCAGCGGCTGG  
ACACCAGCGGCTCCACAGGCAGCCCGGTGACCCACAGCCCGGACTCTGGTATCAGAACCGGCTGC  
AGAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



**Protein Sequence:** >RG204583 representing NM\_030760  
 Red=Cloning site Green=Tags(s)

MESGLLRPAPVSEVIVLHNYTGKLRGARYQPGAGLRADAVVCLAVCAFI VLENLAVLLVLRHPRFHAP  
 MFLLLGSLT LSDLGAAAYAANILL SGPLTLKLSPALWFAREGGVFVAL TASVLSLLAIALERSLTMARR  
 GPAPVSSRGRTLAMAAAAGVSLLLGLLPALGWNCLGRLDACSTVLPYAKAYVLFVLA FVGI LAAICA  
 LYARIYCQVRANARRLPARPGTAGTTSTRARRKPRSLALLRTL SVVLLAFVACWGPLFL LLLLDVACPAR  
 TCPVLLQADPFLGLAMANSLLNPIIYTLNDRDLRHALLRLVCCGRHSCGRDPSGSQQSASAAEASGLRR  
 CLPPGLDGSFSGSERSSPQRDGLDTSGSTGSPGAPTAARTLVSEPAAD

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_030760

**ORF Size:** 1194 bp

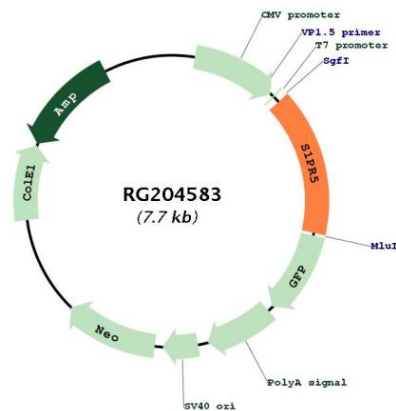
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_030760.3, NP_110387.1</u>
<b>RefSeq Size:</b>	2194 bp
<b>RefSeq ORF:</b>	1197 bp
<b>Locus ID:</b>	53637
<b>UniProt ID:</b>	<u>Q9H228</u>
<b>Cytogenetics:</b>	19p13.2
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>Protein Pathways:</b>	Neuroactive ligand-receptor interaction
<b>Gene Summary:</b>	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 RG204583