

## Specifications:

Gene:	hS1P1/EDG-1
Accession:	NP_001391
Insert size:	1162bp
Package size:	10µg at 0.2µg/µL

## hS1P1/EDG-1 cDNA Plasmid

### S1PR1 sphingosine-1-phosphate receptor 1 [ *Homo sapiens* ]

**Also known as:** EDG1; CD363; ECGF1; CHEDG1; D1S3362

#### Summary:

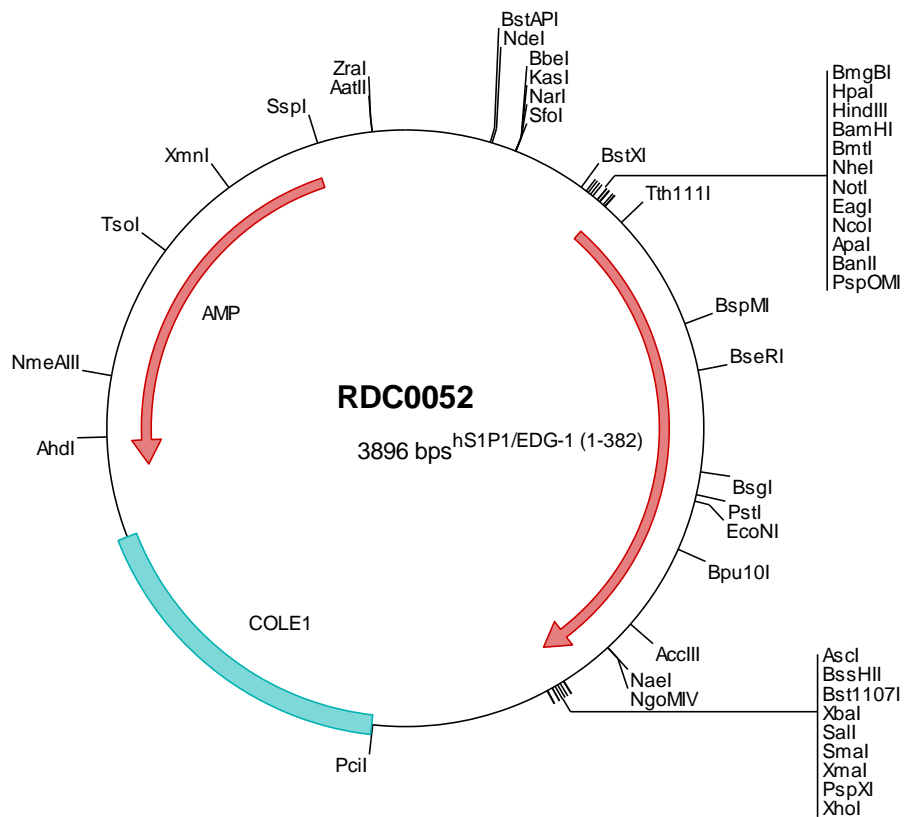
EDG-1 is a G protein-linked seven transmembrane domain spanning receptor that binds sphingosine-1-phosphate with high affinity and high specificity. EDG-1 is highly expressed in endothelial cells. It has been suggested to be involved in the processes that regulate the differentiation of endothelial cells. Activation of EDG-1 regulates endothelial cell survival, cytoskeletal remodeling, chemotaxis, angiogenesis and cell-cell adhesion.

## Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

## Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS



> RDC0052 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcaagctccc gagacggtea cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcaggggcgc tcagcgggtg ttggcgggtg teggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatagtcg gtgtgaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtcggggcc tcttcgctat
301 taaggcagct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta acgcccgggt ttcccgatc acgacgttgt aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagcctt ggatccgata tcgctagcgc gggcgcacc atggggccca caagcgtccc gctggtaacg gccaccgcga gctcgggtctc
501 tgactacgtc aactatgata tcatogtccg gcattacaac tacacgggaa agctgaatat cagcgcggac aaggagaaca gcattaaact gactcgggtg
601 gtgttcaatc tcatotgtgtg ctttatcact ctggagaaca totttgtctt gctgaccatt tggaaaacca agaaattcca cgcaccatg tactatttta
701 ttggcaatct ggccctctca gacctgttg caggagtgc ctacacagct aaactgctct tgtctggggc caccacctac aagctcactc ccgccagtg
801 gtttctcggg gaagggagta tgtttgtggc cctgtcagcc tccgtgttoa gtctctcgc catcgccatt gagcgtata tcacaatgct gaaaatgaaa
901 ctccacaacg ggagcaataa cttccgctc ttoctgctaa tcaagcctc ctgggtaac tccctcacc tgggtggcct gcctatcatg ggttggaaact
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1201 togetggcgc tgetcaagac cgtaatatc gtccagagcg tottcaatcgc ctgctgggca ccgctctca tctctgctct gctggatgtg gctgcaagg
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1401 gatgcgacgg gccttcaacc ggaatcagtc ctgctgcaac tgcocgacg gagactctgc tggcaaatc aagcgacca tctcgcgg catggaatc
1501 agccgcagca aatcggacaa ttccctccac ccccagaaag acgaagggga caaccagag accattatgt cttctggaaa cgtaaactct tctcttaaa
1601 ggcgcgccag tatactctag agtcgacacc cggggaattc ctcgagcgt cgtctctagc ttggcgtaat catggtcata gctgtttcct gtgtgaaatt
1701 gttatccgct cacaaattcca caaacatac gagccggaag cataaagtgt aaagcctggg gtgcctaatt agtgagctaa ctcacattaa ttgcgttgcg
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1901 gcttctctgc tcaactgactc gctgcgctcg gtctgtccgc tgcggcgagc ggtatcagct cactcaaaag cggtaatacgt gttatccaca gaatcagggg
2001 ataacgcagg aaagaacatg tgagcaaaa gcccagaaa ggcaggaac cgtaaaaagg ggcgcttctc cataggtccc gccccctga
2101 cgagcatcac aaaaatcgac gctcaagtca gagggtggcg aaccgcagac gactataaag ataccaggcg tttccccctg gaagctccct cgtgcgctct
2201 cctgttccga ccctgcgctc taccggatac ctgtccgctc ttctccctc ggaagcgtg gcgctttctc aatgctcagc ctgtaggtat ctcaagtccg
2301 tgtaggtcgt tcgctccaag ctgggctgtg tgcacgaacc ccccgctcag ccgacacctc gcgcttato cggtaactat cgtcttgagt ccaaccgggt
2401 aagacacgac ttatcgccac tggcagcagc cactggtaac aggtattgca gagcagagta ttagggcgtt gctacagagt tcttgaagtg gtggcctaac
2501 tacggctaca ctagaaggac agtatttggc atctcgcctc tgetgaagcc agttacctc ggaaaaagag ttggtagctc ttgatccggc aaaaaacca
2601 ccgctggtag cgggtggttt tttggttgca agcagcagat tacgcgcaga aaaaaaggat ctcaagaaga tcctttgatc tttctacgg ggtctgacgc
2701 tcagtggaaac gaaaactcac gttaaaggat tttggtcatg agattatcaa aaaggatctt cacctagatc cttttaaatt aaaaatgaag ttttaaatc
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2901 cctgactccc cgtcgtgtgag ataactacga tacgggaggg cttaccatct ggccccagtg ctgcaatgat acccgagac ccacgctcac cggctccaga
3001 tttatcagca ataaaccagc cagccggaag ggccgagcgc agaagtgtc ctgcaacttt atccgctcc atccagctca ttaattgttg ccgggaagct
3101 agagtaagta gttcgccagt taatagtttg cgcaacgttg ttgcccattg tacaggcatt gtggtgtcac gctcgtggt ttggtatggct tcaattcagct
3201 ccggttccca acgatcaagg cgagttacat gatcccccat gttgtgcaaa aaagcggta gctccttgg tcctccgac gttgtcagaa gtaagtggc
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3501 ttggaaaaag tttctcgggg cgaaaactct caaggtactt accgctgttg agatccagtt cgtatgaacc cactcgtgca cccaactgat ctctcagctc
3601 ttttactttc accagcgttt cggggtgagc aaaaacagga aggcaaaatg ccgcaaaaaa gggataaagg gcgacacgga aatgttgaat actcactc
3701 ttcccttttc aatattatgg atgcatttat caggtttatt gtctcatgag cggatacata tttgaatgta tttagaaaaa taaacaaata ggggtccgc
3801 gcacatttcc ccgaaaagtg ccacctgacg tctaagaaac cattattatc atgacattaa cctataaaaa taggcgtatc acgaggccct ttctg

> RDC0052 Translated Insert Sequence

1 mgpstvplvk ahrssvsdyv nydiivrhy n ytgklnisad kensikltsv vfiliccfii lenifvllti wtkkkfhrpm yyfignlals dllagvayta
101 nlllsgatty kltpaqwflr egsmfvalsa svfsliaiai eryitmlkmk lhngsnnfrl fllisacwvi slilgglpim gwncisalss cstvlplyhk
201 hyilfcttvf tllllsivil ycriyslvrt rsrrltfrkn iskasrssek slalktvii vlsvfiacwa plfillllldv gckvktcdil fraeyflvla
301 vlmsgtnpii ytltnkemrr afirimsckc cpsgdsagkf krpiiagmef srsksdnssh pqkdegdnpe timssngvns ss