

Product datasheet for **RG209761**

VCAM1 (NM_001078) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VCAM1 (NM_001078) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	VCAM1
Synonyms:	CD106; INCAM-100
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG209761 representing NM_001078
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCTGGGAAGATGGTCGTGATCCTTGGAGCCTCAAATATACTTTGGATAATGTTTGCAGCTTCTCAAG
 CTTTTAAAATCGAGACCACCCAGAATCTAGATATCTTGCTCAGATTGGTGACTCCGTCTCATTGACTTG
 CAGCACACAGGCTGTGAGTCCCATTTTTCTCTTGGAGAACCAGATAGATAGTCCACTGAATGGGAAG
 GTGACGAATGAGGGGACCACATCTACGCTGACAATGAATCCTGTTAGTTTTGGGAACGAACACTCTTACC
 TGTGCACAGCAACTTGTGAATCTAGGAAATGGAAAAAGGAATCCAGGTGGAGATCTACTCTTTTCTAA
 GGATCCAGAGATTCATTTGAGTGGCCCTCTGGAGGCTGGGAAGCCGATCACAGTCAAGTGTTCAGTTGCT
 GATGTATACCCATTTGACAGGCTGGAGATAGACTTACTGAAAGGAGATCATCTCATGAAGAGTCAGGAAT
 TTCTGGAGGATGCAGACAGGAAGTCCCTGGAAACCAAGAGTTTGGAAAGTAACTTTACTCCTGTCATTGA
 GGATATTGAAAAAGTTCTTGTGGCCGAGCTAAATTACACATTGATGAAATGGATTCTGTGCCACAGTA
 AGGCAGGCTGTAAAAGAATTGCAAGTCTACATATCACCAAGAATACAGTATTTTCTGTGAATCCATCCA
 CAAAGCTGCAAGAAGGTGGCTCTGTGACCATGACCTGTTCCAGCGAGGGTCTACCAGCTCCAGAGATTTT
 CTGGAGTAAGAAATTAGATAATGGGAATCTACAGCACCTTTCTGGAAATGCAACTCTCACCTTAATTGCT
 ATGAGGATGGAAGATTCTGGAATTTATGTGTGTGAAGGAGTTAATTTGATTGGGAAAAACAGAAAAGAGG
 TGGAAATTAATGTTCAAGAGAAACCATTACTGTTGAGATCTCCCTGGACCCCGGATTGCTGCTCAGAT
 TGGAGACTCAGTCATGTTGACATGTAGTGTGATGGGCTGTGAATCCCATCTTTCTCTGGAGAACCAG
 ATAGACAGCCCTCTGAGCGGGAAGGTGAGGAGTGAGGGACCAATTCCACGCTGACCCTGAGCCCTGTGA
 GTTTTGAGAACGAACACTCTTATCTGTGCACAGTACTGTTGGACATAAGAAACTGGAAAAGGGAATCCA
 GGTGGAGCTCTACTCATTCCCTAGAGATCCAGAAATCGAGATGAGTGGTGGCCTCGTGAATGGGAGCTCT
 GCACTGTAAGCTGCAAGGTTCCTAGCGTGTACCCCTTGACCGGCTGGAGATTGAATTAAGGGGG
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 AATGACCTTCATCCCTACCATTGAAGATACTGGAAAAGCTCTTGTGTTGTCAGGCTAAGTTACATATTGAT
 GACATGGAATTCGAACCCAAACAAGGCAGAGTACGCAAACTTTATGTCAATGTTGCCCCAGAGATA
 CAACCGTCTTGGTCAGCCCTTCTCCATCCTGGAGGAAGGCAGTCTGTGAATATGACATGCTTGAGCCA
 GGGCTTTCTGCTCCGAAAATCCTGTGGAGCAGGCAGCTCCCTAACGGGGAGCTACAGCCTTTTCTGAG
 AATGCAACTCTCACCTTAATTTCTACAAAATGGAAGATTCTGGGTTTTATTTATGTGAAGGAATTAACC
 AGGCTGGAAGAAGCAGAAAGGAAGTGAATTAATTATCCAAGTACTCCAAAAGACATAAAACTTACAGC
 TTTTCTTCTGAGAGTGTCAAAGAAGGAGACACTGTCATCATCTTGTGACATGTGGAAATGTTCCAGAA
 ACATGGATAATCCTGAAGAAAAAGCGGAGACAGGAGACAGTACTAAAATCTATAGATGGCGCCTATA
 CCATCCGAAAGGCCAGTTGAAGGATGCGGGAGTATATGAATGTGAATCTAAAAACAAAGTTGGCTCACA
 ATTAAGAAGTTTAACTTGTGTTCAAGGAAGAGAAAACAACAAGACTATTTTCTCCTGAGCTTCTC
 GTGCTCTATTTTGCATCCTCCTAATAATACCTGCCATTGGAATGATAATTTACTTTGCAAGAAAAGCCA
 ACATGAAGGGTCATATAGTCTTGTAGAAGCACAGAAATCAAAAGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG209761 representing NM_001078
 Red=Cloning site Green=Tags(s)

MPGKMMVILGASNILWIMFAASQAFKIETTPESRYLAQIGDSVSLTCSTTGCEPFFSWRTQIDSPLNGK
 VTNEGTTSTLTMNPVSGNEHSYLCTATCESRKLEKGIQVEIYSFPKDPEIHLSGPLEAGKPITVKCSVA
 DVYFPDRLEIDLKGDHLMKSQEFLEDADRKSLETKSLEVTFPTVIEDIGKVLVCRAKLHIDEMDSVPTV
 RQAVKELQVYISPKNTVIVSNPSTKLQEGGSVTMTCSSEGLPAPEIFWSKKLDNGNLQHLSGNATLTLIA
 MRMEDSGIYVCEGVNLI GKNRKEVELIVQEKPFVEIISPGPRIAAQIGDSVMLTCSVMGCESPFSWRTQ
 IDSPLSGKVRSEGTNSTLTLSPVSFENEHSYLCTVTCGHKKLEKGIQVELYSFPRDPEIEMSGGLVNGSS
 VTVSCKVPSVYPLDRLEIELLKGETILENIEFLEDTDMKSLENKSLEMTFIPTIEDTGKALVCQAKLHID
 DMEFEPKQRQSTQTLVYVNAVPRDITVLVSPSSILEEGSSVNMTCLSQGFPAKILWSRQLPNGELQPLSE
 NATLTLISTKMEDSGVYLCEGINQAGRSRKEVELIIQVTPKDIKLTAFPSESVKEGDTVIISCTCGNVPE
 TWIILKKAETGDTVLSIDGAYTIRKAQLKDAGVYECESKNKVGSQLRSLTLDVQGRENNKDYFPELL
 VLYFASSLIIPAIGMIIYFARKANMKGSYSLVEAQKSKV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_001078

ORF Size: 2217 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 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.

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_001078.2](#), [NP_001069.1](#)

RefSeq Size: 3119 bp

RefSeq ORF: 2220 bp

Locus ID: 7412

UniProt ID: [P19320](#)

Cytogenetics: 1p21.2

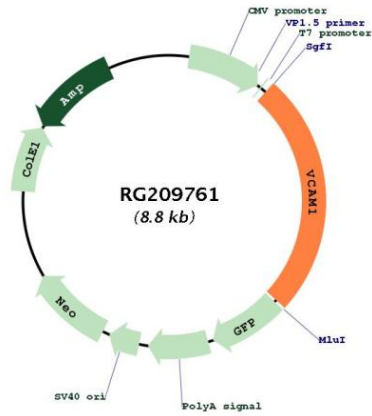
Domains: ig, IGv, IGc2, IG

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

Protein Pathways: Cell adhesion molecules (CAMs), Leukocyte transendothelial migration

Gene Summary: This gene is a member of the Ig superfamily and encodes a cell surface sialoglycoprotein expressed by cytokine-activated endothelium. This type I membrane protein mediates leukocyte-endothelial cell adhesion and signal transduction, and may play a role in the development of atherosclerosis and rheumatoid arthritis. Three alternatively spliced transcripts encoding different isoforms have been described for this gene. [provided by RefSeq, Dec 2010]

Product images:



Circular map for RG209761