

## Product datasheet for **RG234695**

### **VCAM1 (NM\_001199834) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	VCAM1 (NM_001199834) 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:**

>RG234695 representing NM\_001199834  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCCTGGGAAGATGGTCGTGATCCTTGGAGCCTCAAATATACTTTGGATAATGTTTGCAGCTTCTCAAG  
 CTTTTAAATCGAGACCACCCAGAATCTAGATATCTTGCTCAGATTGGTGACTCCGTCTCATTGACTTG  
 CAGCACACAGGCTCTTTTCTAAGGATCCAGAGATTCATTTGAGTGGCCCTCTGGAGGCTGGGAAGCCG  
 ATCACAGTCAAGTGTTGCTGATGTATACCCATTTGACAGGCTGGAGATAGACTTACTGAAAGGAG  
 ATCATCTCATGAAGAGTCAGGAATTTCTGGAGGATGCAGACAGGAAGTCCCTGAAACCAAGAGTTTGA  
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 CAGTTATTTCTGTGAATCCATCCAAAAGCTGCAAGAAGGTGGCTCTGTGACCATGACCTGTTCCAGCGA  
 GGGTCTACCAGCTCCAGAGATTTCTGGAGTAAGAAATTAGATAATGGGAATCTACAGCACCTTTCTGGA  
 AATGCAACTCTCACCTTAATTGCTATGAGGATGGAAGATTCTGGAATTTATGTGTGTGAAGGAGTTAATT  
 TGATTGGGAAAAACAGAAAAGAGGTGGAATTAATTGTTCAAGAGAAACCTTTACTGTTGAGATCTCCCC  
 TGGACCCCGGATTGCTGCTCAGATTGGAGACTCAGTCATGTTGACATGTAGTGTGATGGGCTGTGAATCC  
 CCATCTTTCTCCTGGAGAACCAGATAGACAGCCCTCTGAGCGGGAAGGTGAGGAGTGAGGGGACCAATT  
 CCACGCTGACCCCTGAGCCCTGTGAGTTTTGAGAACGAACACTCTTATCTGTGCACAGTGACTTGTGGACA  
 TAAGAACTGGAAAAGGGAATCCAGGTGGAGCTCTACTCATTCCCTAGAGATCCAGAAATCGAGATGAGT  
 GGTGGCCCTCGTGAATGGGAGCTCTGTCACTGTAAGCTGCAAGGTCCCTAGCGTGTACCCCTTGACCGGC  
 TGGAGATTGAATTACTTAAGGGGAGACTATTCTGGAGAATATAGAGTTTTTGGAGGATACGGATATGAA  
 ATCTCTAGAGAACAAGTTTGGAAATGACCTTCATCCCTACCATTGAAGATACTGGAAAAGCTCTTGTT  
 TGTCAAGCTAAGTTACATATTGATGACATGGAATTCGAACCCAAACAAAGGCAGAGTACGCAAACTTT  
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 GGGGAGCTACAGCCTCTTTCTGAGAATGCAACTCTCACCTTAATTTCTACAAAAATGGAAGATTCTGGG  
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 TCCAAAAGACATAAACTTACAGCTTTTCTTCTGAGAGTGTCAAAGAAGGAGACTGTCATCATCTCT  
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 ATCTAAAAACAAAGTTGGCTCACAATTAAGAAAGTTAACACTTGATGTTCAAGGAAGAGAAAACAACAAA  
 GACTATTTTTCTCCTGAGCTTCTCGTGCTATTTTGCATCCTCCTTAATAATACCTGCCATTGGAATGA  
 TAATTTACTTTGCAAGAAAAGCCAACATGAAGGGTCAATAGTCTTGTAGAAGCACAGAAGTCAAAAGT  
 G

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG234695 representing NM\_001199834  
 Red=Cloning site Green=Tags(s)

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MPGKMMVILGASNILWIMFAASQAFKIETTPESRYLAQIGDSVSLTCSTTGSFPKDPEIHLSPLEAGKP
ITVKCSVADVYPFDRLEIDLKGDHLMKSQEFLEADRKSLETKSLEVTFTPVIEDIGKVLVCRAKLHID
EMDSVPTVRQAVKELQVYISPKNTVISVNPSTKLQEGGSVTMTCSSEGLPAPEIFWSKKLDNGLQHLSG
NATLTLIAMRMEDSGIYVCEGVNLIIGNRKEVELIVQEKPTVEISPGPRIAAQIGDSVMLTCSVMGCES
PSFSWRTQIDSPLSGKVRSEGTNSTLTLSPVSEFENEHSYLCTVTGHHKLEKGIQVELYSFPRDPEIEMS
GGLVNGSSVTVSCVPSVYPLDRLEIEILLKGETILENIEFLEDTMKSLENKSLEMTFTIPTIEDTGKALV
CQAKLHIDMEFEPKQRQSTQTLVYVAVPRDTTVLVSPSSILEEGSSVNMTCLSQGFPAKILWSRQLPN
GELQPLSENATLTLISTKMEDSGVYLCEGINQAGRSRKEVELIIQVTPKDIKLTAFPSSEVKEGDTVIIIS
CTCGNVPETWIIILKKAETGDTVLSIDGAYTIRKAQLKDAGVYECESKNKVGSQRLSLTLDVQGRENNK
DYFSPELLVLYFASSLIIPAIGMIYFARKANMKGYSYSLVEAQKSKV
  
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

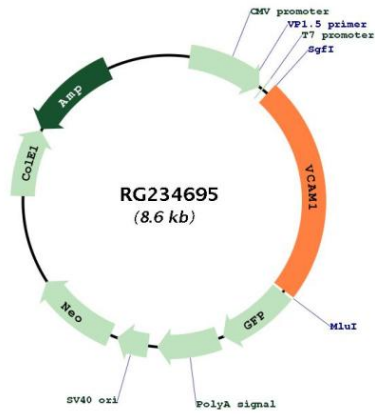


**ACCN:** NM\_001199834

**ORF Size:** 2031 bp

<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	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>	<a href="#">NM_001199834.1</a> , <a href="#">NP_001186763.1</a>
<b>RefSeq Size:</b>	3034 bp
<b>RefSeq ORF:</b>	2034 bp
<b>Locus ID:</b>	7412
<b>UniProt ID:</b>	<a href="#">P19320</a>
<b>Cytogenetics:</b>	1p21.2
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
<b>Protein Pathways:</b>	Cell adhesion molecules (CAMs), Leukocyte transendothelial migration
<b>Gene Summary:</b>	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 RG234695