

Product datasheet for **SC331375**

VCAM1 (NM_001199834) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VCAM1 (NM_001199834) Human Untagged Clone
Tag:	Tag Free
Symbol:	VCAM1
Synonyms:	CD106; INCAM-100
Vector:	pCMV6-Entry (PS100001)



[View online »](#)

Fully Sequenced ORF: >SC331375 representing NM_001199834.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGCCTGGGAAGATGGTCGTGATCCTTGGAGCCTCAAATATACTTTGGATAATGTTTGCAGCTTCTCAA
GCTTTTAAAATCGAGACCACCCAGAATCTAGATATCTTGCTCAGATTGGTGACTCCGTCTCATTGACT
TGCAGCACCACAGGCTCTTTTCTAAGGATCCAGAGATTCATTTGAGTGGCCCTCTGGAGGCTGGGAAG
CCGATCACAGTCAAGTGTTCAGTTGCTGATGTATACCCATTTGACAGGCTGGAGATAGACTTACTGAAA
GGAGATCATCTCATGAAGAGTCAGGAATTTCTGGAGGATGCAGACAGGAAGTCCCTGGAAAACCAAGAGT
TTGGAAGTAACCTTTACTCCTGTGATTGAGGATATTGGAAAAGTTCTTGTGGCCGAGCTAAATTACAC
ATTGATGAAATGGATTCTGTGCCACAGTAAGGCAGGCTGTAAGAAGATTGCAAGTCTACATATCACCC
AAGAATACAGTTATTTCTGTGAATCCATCCACAAAGCTGCAAGAAGGTGGCTCTGTGACCATGACCTGT
TCCAGCGAGGGTCTACCAGCTCCAGAGATTTTCTGGAGTAAGAAATTAGATAATGGGAATCTACAGCAC
CTTTCTGGAATGCAACTCTCACCTTAATTGCTATGAGGATGGAAGATTCTGGAATTTATGTGTGTGAA
GGAGTTAATTTGATTGGGAAAAACAGAAAAGAGGTGGAATTAATTGTTCAAGAGAAACCATTACTGTT
GAGATCTCCCCTGGACCCCGATTGCTGCTCAGATTGGAGACTCAGTCATGTTGACATGTAGTGTATG
GGCTGTGAATCCCCTCTTTCTCCTGGAGAACCAGATAGACAGCCCTCTGAGCGGGAAGGTGAGGAGT
GAGGGGACCAATTCCACGCTGACCCTGAGCCCTGTGAGTTTTGAGAACGAACACTCTTATCTGTGCACA
GTGACTTGTGGACATAAGAACTGGAAAAGGGAATCCAGGTGGAGCTCTACTCATTCCCTAGAGATCCA
GAAATCGAGATGAGTGGTGGCCTCGTGAATGGGAGCTCTGCTACTGTAAGCTGCAAGGTTCTAGCGTG
TACCCCTTGACCGGCTGGAGATTGAATTACTTAAGGGGAGACTATTCTGGAGAATATAGAGTTTTTG
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CAGAGTACGCAAAACACTTTATGTCAATGTTGCCCCAGAGATACAACCGTCTTGGTCAGCCCTTCTCC
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TGGAGCAGGCAGCTCCCTAACGGGGAGCTACAGCCTTTTCTGAGAATGCAACTCTCACCTTAATTTCT
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GTGGAATTAATTAATCCAAGTTACTCCAAAAGACATAAACTTACAGCTTTTCTTCTGAGAGTGTCAAA
GAAGGAGACACTGTCATCATCTTGTACATGTGGAAATGTTCCAGAAACATGGATAATCCTGAAGAAA
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AAGGATGCGGGAGTATATGAATGTGAATCTAAAAACAAAGTTGGCTCACAATTAAGAAGTTTAACACTT
GATGTTCAAGGAAGAGAAAAACAACAAGACTATTTTTCTCCTGAGCTTCTCGTGTCTATTTTGCATCC
TCCTTAATAATACCTGCCATTGGAATGATAATTTACTTTGCAAGAAAAGCCAACATGAAGGGTCATAT
AGTCTTGTAGAAGCACAGAAGTCAAAGTAG
  
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Restriction Sites: SgfI-MluI
ACCN: NM_001199834
Insert Size: 2034 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](#)

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_001199834.1](#)

RefSeq Size: 3034 bp

RefSeq ORF: 2034 bp

Locus ID: 7412

UniProt ID: [P19320](#)

Cytogenetics: 1p21.2

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

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

MW: 74.3 kDa

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]

Transcript Variant: This variant (3) lacks an in-frame segment in the CDS compared to transcript variant 1. The resulting isoform (c) lacks an internal segment compared to isoform a.