

Product datasheet for **SC119467**

VCAM1 (NM_001078) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VCAM1 (NM_001078) Human Untagged Clone
Tag:	Tag Free
Symbol:	VCAM1
Synonyms:	CD106; INCAM-100
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC119467 sequence for NM_001078 edited (data generated by NextGen Sequencing)

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ATGCCTGGGAAGATGGTCGTGATCCTTGGAGCCTCAAATATACTTTGGATAATGTTTGCA
GCTTCTCAAGCTTTTAAAATCGAGACCACCCAGAATCTAGATATCTTGCTCAGATTGGT
GACTCCGTCTCATTGACTTGCAGACCACAGGCTGTGAGTCCCCATTTTTCTCTGGAGA
ACCCAGATAGATAGTCCACTGAATGGGAAGGTGACGAATGAGGGGACCACATCTACGCTG
ACAATGAATCCTGTTAGTTTTGGGAACGAACACTCTTACCTGTGCACAGCAACTTGTGAA
TCTAGGAAATTGGAAAAAGGAATCCAGGTGGAGATCTACTCTTTTCTAAGGATCCAGAG
ATTCATTTGAGTGGCCCTCTGGAGGCTGGGAAGCCGATCACAGTCAAGTGTTCAGTTGCT
GATGTATACCCATTTGACAGGCTGGAGATAGACTTACTGAAAGGAGATCATCTCATGAAG
AGTCAGGAATTTCTGGAGGATGCAGACAGGAAGTCCCTGGAAACCAAGAGTTTGGAAAGTA
ACCTTTACTCCTGTCATTGAGGATATTGGAAAAGTTCTTGTTTGGCCGAGCTAAATTACAC
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ATATCACCAAGAATACAGTTATTTCTGTGAATCCATCCACAAAGCTGCAAGAAGGTGGC
TCTGTGACCATGACCTGTTCCAGCGAGGGTCTACCAGCTCCAGAGATTTTCTGGAGTAAG
AAATTAGATAATGGGAATCTACAGCACCTTTCTGGAAATGCAACTCTCACCTAATTGCT
ATGAGGATGGAAGATTCTGGAATTTATGTGTGAAGGAGTTAATTTGATTGGGAAAAAC
AGAAAAGAGGTGGAATTAATTGTTCAAGAGAAACCATTTACTGTTGAGATCTCCCCTGGA
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TATCTGTGCACAGTGACTTGTGGACATAAGAACTGAAAAAGGAATCCAGGTGGAGCTC
TACTCATCCCTAGAGATCCAGAAATCGAGATGAGTGGTGGCCCTCGTGAATGGGAGCTC
GTCACTGTAAGCTGCAAGGTTCTAGCGTGTACCCCTTGACCGGCTGGAGATTGAATTA
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GCTCCGAAAATCCTGTGGAGCAGGCAGCTCCCTAACGGGGAGCTACAGCCTCTTTCTGAG
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TTAACACTTGATGTTCAAGGAAGAGAAAACAACAAAGACTATTTTTCTCTGAGCTTCTC
GTGCTCTATTTTGCATCCTCCTAATAATACCTGCCATTGGAATGATAATTTACTTTGCA
AGAAAAGCCAACATGAAGGGTTCATATAGTCTTGTAGAAGCACAGAAATCAAAGTGTAG

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Clone variation with respect to NM_001078.3
 2208 g=>a

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001078 unedited
TCTTGGATTTGTAACCGACTTATATAGGCGGCCGCAATTTCGCACGAGGATCGGGCCTC
ACTGGCTTCAGGAGCTGAATACCCTCCCAGGCACACACAGGTGGGACACAATAAGGGTT
TTGGAACCACTATTTTCTCATCACGACAGCAACTAAAATGCCTGGGAAGATGGTCGTGA
TCCTTGGAGCCTCAAATATACTTTGGATAATGTTTGCAGCTTCTCAAGCTTTTAAATCG
AGACCACCCAGAATCTAGATATCTTGTCTCAGATTGGTGACTCCGTCTCATTGACTTGA
GCACCACAGGCTGTGAGTCCCCATTTTTCTCTTGGAGAACCAGATAGATAGTCCACTGA
ATGGGAAGGTGACGAATGAGGGGACCACATCTACGCTGACAATGAATCCTGTTAGTTTTG
GGAACGAACACTTTACCTGTGCACAGCAACTTGTGAATCTAGGAAATTGGAAAAAGGAA
TCCAGGTGGAGATCTACTCTTTTCTAAGGATCCAGAGATTCATTTGAGTGGCCCTCTGG
AGGCTGGGAAGCCGATCACAGTCAAGTGTTCAGTTGCTGATGTATACCCATTTGACAGGC
TGGAGATAGACTTACTGAAAGGAGATCATCTCATGAAGAGTCAGGAATTTCTGGAGGATG
CAGACAGGAAGTCCCTGGAAACCAAGAGTTTGGAAAGTAACCTTTACTCCTGTCATTGAGG
ATATTGAAAAAGTTCTTGTTTGCCGAGCTAAATTACACATTGATGAAATGGATTCTGTGC
CCACAGTAAGGCAGGCTGNTAAAGATTTGCAGTCTACATATACCCAAGAATACAGTTAT
TTCTGTGAATCCATCCCCACAAGCTGCAGAAGGTGGCTCTGTGACCCATGACCTGTNCAG
CGAGGGTCTACCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001078 unedited
CGGGCCGCTTTCTAGAGTCGAGTTTTTTTTTTTTTTTTTCTAATTCCAGAATTATCACT
TTACTATACAAAAAACCTAAACATTTACAAAAGAAAATAAAAAGAAGTTCATTTTTAG
GCCACATTTGGGAAAGTTGCACAGTAGTCTGATGAACAACTTCGTGAAACATCTCCGTAC
CATGCCAGTACTATACAGAGAAACCCAGTCAACCATTATACCATAGGTTGAGGTATTTAG
TACCTGAAAGTCAACCCAGTGTCCCTTTGCTTATTATTTGTCTATAAAAAATAAAAACC
CGGCATCTTTACAAAACCTGAAATTATTGTCAATAAACTATATAGGAATAAAATTTTGTG
AAAGGGAATAAAATAGAAGAAAGATGACAAAGGTCAGCTGTCAGCAAATATTAATGTGAA
ATTTTCTAACATGCATTAATTTATAATAGTCCAAGCAACACTAGTTATTTTAACAATCT
AAATATAGAGTGTGCTATTTTAAAGCAATCTTGCTATGGCATAATTTTATTTTACCTTTG
TCCAAATTAGGGTATTGGATTTACAAAACAAGGGAATCCCCCGTTTTTTTTTTGGGGG
GATCCGGTGTTTGGGCGAAAAGTTTTTTTTTTTTTTTTTCCACAGGGGGGAAAAGGGG
CTTTTTTTTCCCGGAAATTTTTGGGGGGGGCGCCCCCACCATTGTCTTTCGGGGG
GGGGGGGGCCCTCGGGTGGCCCAAAAAAGGTGGGCCCGGGCACAACAAAAAACGT
TGCCCCCTTCTGTGTGGGGCGGGCACAACAAAAAACACCCCTCCGGGGGGGGG
GCTTCCCAACAAAATAATTCTCCGGGGGGGGGGG

Restriction Sites:

NotI-NotI

ACCN:

NM_001078

Insert Size:

3200 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_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]

Transcript Variant: This variant (1) encodes the predominant, full-length isoform (a).