

## 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><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >OriGene ORF within SC119467 sequence for NM\_001078 edited (data generated by NextGen Sequencing)

```

ATGCCTGGGAAGATGGTCGTGATCCTTGGAGCCTCAAATATACTTTGGATAATGTTTGA
GCTTCTCAAGCTTTTAAAATCGAGACCACCCAGAATCTAGATATCTTGCTCAGATTGGT
GACTCCGTCTCATTGACTTGCAGACCACAGGCTGTGAGTCCCCATTTTCTCTTGAGAG
ACCCAGATAGATAGTCCACTGAATGGGAAGGTGACGAATGAGGGGACCACATCTACGCTG
ACAATGAATCCTGTTAGTTTTGGGAACGAACACTCTTACCTGTGCACAGCAACTTGTGAA
TCTAGGAAATTGGAAAAAGGAATCCAGGTGGAGATCTACTCTTTTCTAAGGATCCAGAG
ATTCATTTGAGTGGCCCTCTGGAGGCTGGGAAGCCGATCACAGTCAAGTGTTCAGTTGCT
GATGTATACCCATTTGACAGGCTGGAGATAGACTTACTGAAAGGAGATCATCTCATGAAG
AGTCAGGAATTTCTGGAGGATGCAGACAGGAAGTCCCTGGAAACCAAGAGTTTGGAAAGTA
ACCTTTACTCCTGTCATTGAGGATATTGGAAAAGTTCTTGTTTGGCCGAGCTAAATTACAC
ATTGATGAAATGGATTCTGTGCCACAGTAAGGCAGGCTGTAAAAGAATTGCAAGTCTAC
ATATCACCAAGAATACAGTTATTTCTGTGAATCCATCCACAAAGCTGCAAGAAGGTGGC
TCTGTGACCATGACCTGTTCCAGCGAGGGTCTACCAGCTCCAGAGATTTTCTGGAGTAAG
AAATTAGATAATGGGAATCTACAGCACCTTTCTGGAAATGCAACTCTCACCTAATTGCT
ATGAGGATGGAAGATTCTGGAATTTATGTGTGTAAGGAGTTAATTTGATTGGGAAAAAC
AGAAAAGAGGTGGAATTAATTGTTCAAGAGAAACCATTTACTGTTGAGATCTCCCCTGGA
CCCCGATTGCTGCTCAGATTGGAGACTCAGTCATGTTGACATGTAGTGTGATGGGCTGT
GAATCCCCATCTTTCTCTGGAGAACCAGATAGACAGCCCTCTGAGCGGGAAGGTGAGG
AGTGAGGGGACCAATCCACGCTGACCCTGAGCCCTGTGAGTTTTGAGAACGAACACTCT
TATCTGTGCACAGTGACTTGTGGACATAAGAACTGAAAAAGGAATCCAGGTGGAGCTC
TACTCATTCCCTAGAGATCCAGAAATCGAGATGAGTGGTGGCCCTCGTGAATGGGAGCTC
GTCACTGTAAGCTGCAAGGTTCTAGCGTGTACCCCTTGACCGGCTGGAGATTGAATTA
CTTAAGGGGGAGACTATTCTGGAGAATATAGAGTTTTTGGAGGATACGGATATGAAATCT
CTAGAGAACAAGTTTGGAAATGACCTTCATCCCTACCATTGAAGATACTGGAAAAGCT
CTTGTTTGTGAGGCTAAGTTACATATTGATGACATGGAATTCGAACCCAAACAAAGGCAG
AGTACGCAAACTTTATGTCAATGTTGCCCCAGAGATAACAACCGTCTTGGTCAGCCCT
TCCTCCATCCTGGAGGAAGGCAGTTCTGTGAATATGACATGCTTGAGCCAGGGCTTTCT
GCTCCGAAAATCCTGTGGAGCAGGCAGCTCCCTAACGGGGAGCTACAGCCTCTTTCTGAG
AATGCAACTCTCACCTTAATTTCTACAAAATGGAAGATTCTGGGGTTTTATTTATGTGAA
GGAATTAACCAGGCTGGAAGAAGCAGAAAGGAAGTGAATTAATTATCCAAGTACTCCA
AAAGACATAAACTTACAGCTTTTCTTCTGAGAGTGTCAAAGAAGGAGACACTGTCATC
ATCTCTTGATACATGTGGAATGTTCCAGAAACATGGATAATCCTGAAGAAAAAGCGGAG
ACAGGAGACACAGTACTAAAATCTATAGATGGCGCCTATACCATCCGAAAGGCCAGTTG
AAGGATGCGGGAGTATATGAATGTGAATCTAAAAACAAAGTTGGCTCACAATTAAGAAGT
TTAACACTTGATGTTCAAGGAAGAGAAAACAACAAGACTATTTTCTCTGAGCTTCTC
GTGCTCTATTTTGCATCCTCCTAATAATACCTGCCATTGGAATGATAATTTACTTTGCA
AGAAAAGCCAACATGAAGGGTTCATATAGTCTTGTAGAAGCACAGAAATCAAAGTGTAG

```

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  
AGACCACCCAGAATCTAGATATCTTGTCTAGATTGGTGACTCCGTCTCATTGACTTGA  
GCACCACAGGCTGTGAGTCCCCATTTTTCTCTTGGAGAACCAGATAGATAGTCCACTGA  
ATGGGAAGGTGACGAATGAGGGGACCACATCTACGCTGACAATGAATCCTGTTAGTTTTG  
GGAACGAACACTTTACCTGTGCACAGCAACTTGTGAATCTAGGAAATTGAAAAAGGAA  
TCCAGGTGGAGATCTACTCTTTTCTAAGGATCCAGAGATTCATTTGAGTGGCCCTCTGG  
AGGCTGGGAAGCCGATCACAGTCAAGTGTTCAGTTGCTGATGTATACCCATTTGACAGGC  
TGGAGATAGACTTACTGAAAGGAGATCATCTCATGAAGAGTCAGGAATTTCTGGAGGATG  
CAGACAGGAAGTCCCTGGAAACCAAGAGTTTGAAGTAACCTTTACTCCTGTCATTGAGG  
ATATTGAAAAAGTCTTGTGTTGCCGAGCTAAATTACACATTGATGAAATGGATTCTGTGC  
CCACAGTAAGGCAGGCTGNTAAAGATTTGCAGTCTACATATACCCAAGAATACAGTTAT  
TTCTGTGAATCCATCCCCACAAGCTGCAGAAGGTGGCTCTGTGACCCATGACCTGTNCAG  
CGAGGGTCTACCC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_001078 unedited  
CGGGCCGCTTTCTAGAGTCGAGTTTTTTTTTTTTTTTTTCTAATTCCAGAATTACT  
TTACTATACAAAAAACCTAAACATTTACAAAAGAAAATAAAAAGAAGTTCATTTTTAG  
GCCACATTTGGGAAAGTTGCACAGTAGTCTGATGAACAACTTCGTGAAACATCTCCGTAC  
CATGCCAGTACTATACAGAGAAACCCAGTCAACCATTATACCATAGGTTGAGGTATTTAG  
TACCTGAAAGTCAACCCAGTGTCCCTTTGCTTATTATTTGTCTATAAAAAATAAAACC  
CGGCATCTTTACAAAACCTGAAATTATTGTCAATAAACTATATAGGAATAAAATTTGTG  
AAAGGGAATAAAATAGAAGAAAGATGACAAAGGTGAGTGTGAGCAAAATATTAATGTGAA  
ATTTTCTAACATGCATTAATTAATAATAGTCCAAGCAACTAGTTATTTTAACAATCT  
AAATATAGAGTGTGCTATTTTAAGCAATCTTGTCTATGGCATAATTTTATTTTACCTTTG  
TCCAAATTAGGGTATTGGATTTACAAAACAAGGGAATCCCCCGTTTTTTTTTTGGGGG  
GATCCGGTGTGTTGGGCGAAAAGTTTTTTTTTTTTTTTTTCCACAGGGGGGAAAAGGGG  
CTTTTTTTTCCCGGAAATTTTTGGGGGGGGCGCCCCACCCATTTGTTTCTTGGGGG  
GGGGGGGGCCCTCGGGTGGCCCAAAAAAGGTGGGCCCGGGCAGAAAAAAAACGT  
TGCCCCCTTCTGTGTGGGGGCGGCACAAAAAAAACACCCCTCCGGGGGGGGG  
GCTTCCCAACAAAATAATTCTCCCGGGGGGGGGG

**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](mailto: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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**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 arteriosclerosis 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).