

## Product datasheet for **RR207807**

### Vcam1 (NM\_012889) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Vcam1 (NM_012889) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Vcam1
Synonyms:	VCAM1B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RR207807 representing NM\_012889  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCTGTGAAGATGGTCGCGATCTTCGGAGCCTCAACGGTACTTTGGATACTGTTTGCAGTCTCTCAAG  
 CTTTTAAATCGAGATCTCCCCTGAATACAAAACGCTCGCTCAGATTGGAGACTCCATGCTCCTGACTTG  
 CAGCACACAGGCTGTGAGTCGCCATCATTCTCTTGGAGAACCCAGATAGACAGTCCACTAAATGGGAAG  
 GTGAAGACAGAGGGGCCAAGTCCGTTCTGACCATGGACCCTGTGAGCTTTGAGAATGAACACTCTTACC  
 TGTGCACAGCAACATGTAACCTGGGAACTGGAAAGAGGAATCCAAGTGGACATCTACTCATTCCCTAA  
 GGATCCAGAGATTCAATTCAGTGGCCCCCTGGAGGTTGGGAAGCCGGTCATGGTCAAGTGTGGCTCCT  
 GATGTTTACCAATTGACAGACTGGAGATAGAAGTGTCAAGGGTACCGTCTCATGAAGAAACAGGATT  
 TTGTAGATGAGATGGCAAAGAAGTCTCTGGAAACCAAGAGTTTGGAAAGTCACTTTACTCCTGTCATTGA  
 GGATATTGAAAAGGCTCTTGTGGCCGAGCTAAATTATACATTGACCAAACCTGATTCTATCCCAAAGAA  
 AGGGAGACTGTCAGAGAACTACAAGTCTACACCTCCCCAAGAATACAGAGATCTCTGTACATCCCTCCA  
 CAAGGCTACATGAGGGTCTGCTGTGACGATGACATGTGCCAGCGAGGGTCTACCAGCTCCTGAGATTTT  
 CTGGAGCAAGAAATTAGATAATGGAGTTCTACAGCTCCTCTCGGGAAATGCCACCCTCACCTTAATTGCT  
 ATGAGGATGGAAGATTCTGGAATCTATGTGTGTAAGGAGTGAATCTGGTTGGGAGAGACAAAACAGAAG  
 TGGAAATTAATTGTTCAAGAGAAACCATTACTGTTGACATCTCCCCTGGATCTCAGGTGGCTGCACAGGT  
 TGGGGATTCCGTTGTTCTGACATGTGCTGCTGTTGGCTGTGACTCTCCCTCCTTTCTTGGAGAACCAG  
 ACAGACAGTCCCCTCAATGGGGAGGTGAGGGATGAAGGGGCTACATCCACACTGACGCTGAGCCCTGTGG  
 GTGTTGAGGATGAGCACTTTACCTGTGCACTGTGACCTGTGAGGAAAGGAACTGGAGAAGCAATCCA  
 AGTGGAGGTCTACTCATTCCCTGAAGACCAGAAATTGAAATAAGTGGACCACTTGTACACGGGAGACCT  
 GTCACCTGTCAACTGCACGGTCCCTAATGTGTACCCCTTTGACCATCTGGAGATTGAACTACTGAAGGGG  
 AGACAACACTGTTGAATAAATTTTAAAGGGAGGAAATTGGCACAAAGTCTCTAGAGACAAAAGTTTGGAA  
 AATGACCTTCATCCCACCGCTGAAGACACCGGAAAGCTCTTGTGGCCTCGTAAGTTACACAGCAGT  
 CAAATGGAGTCTGAACCCAAACAAGGCAGAGTACACAGACTCTTATGTCAACGTTGCTCCGAAAGAAC  
 CCACCATCTGGGTTAGCCCTCTCCTGTCCAGAGGAGGGCAGTCTGTGAACCTGACCTGCTCAAGTGA  
 TGGTTTTCCAACCTCCAAAATCCTGTGGAGCAGACAGCTAAAGAACGGGAACTGCAGCCTTTTCTCAA  
 AATACAACACTCTCCTTCATGGCTACAAAATGGAAGATTCCGGCATTATGTATGTGAAGGATTAATG  
 AGGCTGGAATTAGCAAAAATCAGTTGAACTGATTATCCAAGGCTCTTGAAGGACATACAGCTTACAGT  
 CTTCCCATCTAAGAGCGTCAAAGAGGGAGACACTGTCATTATCTCCTGTACTTGTGGAAGTGTGCCCGAA  
 ATATGGATAATTCTGAAAAAGAAAGCAAGACAGGAGACATGGTGCTAAAGTCTGTTAATGGCTCGTACA  
 CCATCCGCAAGGCACAGCTGCAGGATGCCGGAGTATACGAGTGTGAATCGAAAACCGAAGTCGGCTCGCA  
 GTTGCGAAGTTTAACTTGTGTAAGGAAAAGAAAATAACAAGGACTATTTTCCCCTGAACTCCTT  
 GCACTCTACTTTGCATCCTCCTGGTAATACCCGCCATTGGGATGATCATTTACTTTGCAAGAAAAGCCA  
 ACATGAAAGGATCGTACAGTCTGGTGGAGGCACAGAAGTCAAAAGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR207807 representing NM\_012889  
 Red=Cloning site Green=Tags(s)

MPVKMVAIFGASTVLWILFAVSQAFKIEISPEYKTLAQIGDSMLLTCSTTGCESPFSWRTQIDSPLNGK  
 VKTEGAKSVLTMDPVSFENEHSYLCTATCNSGKLERGIQVDIYSFPKDPEIQFSGPLEVGGKPMVKCLAP  
 DVYPIDRLEIELFKGDRMLMKKQDFVDEMAKKSLETKSLEVIPTPVIEDIEKALVCRACKLYIDQTD SIPKE  
 RETVRELQVYTS PKNTEISVHPSTRLHEGAAVTMTCASEGLPAPEIFWSKKLDNGVLQLLSGNATLTLIA  
 MRMEDSGIYVCEGVNLVGRDKTEVELIVQEKPFVTDISPGSQVAAQVGDSSVLTCAA VGCDS PFSWRTQ  
 TDSPLNGEVRDEGATSTLTLSPVGEDEHSYLCTVTCQRRKLEKTIQVEVYSPFDEPEIEISGPLVHGRP  
 VTVNCTVNPVYFDHLEIELLKGTTLLNKFLREEIGTKSLETKSLEMTFIPTAEDTGKALVCLAKLHSS  
 QMESEPKRQSTQTLVYVNPAPKEPTIWPSPVPEEGSPVNLTCSSDGFPTPKILWSRQLKNGELQPLSQ  
 NTTLSFMATKMEDSGIYVCEGINEAGISKKSVELIIQGSSKDIQLTVFPSKSVKEGDTVIIISCTCGSVPE  
 IWIIILKKAKTGDMVLKSVNGSYTIRKAQLQDAGVYECESKTEVGSQRLRSLTLDVKGKKNKDYF SPELL  
 ALYFASSLVIPAIGMIIYFARKANMKGSYSLVEAQKSKV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_012889

**ORF Size:** 2217 bp

**OTI Disclaimer:** 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\\_012889.1](#), [NP\\_037021.1](#)

**RefSeq Size:** 3007 bp

**RefSeq ORF:** 2220 bp

**Locus ID:** 25361

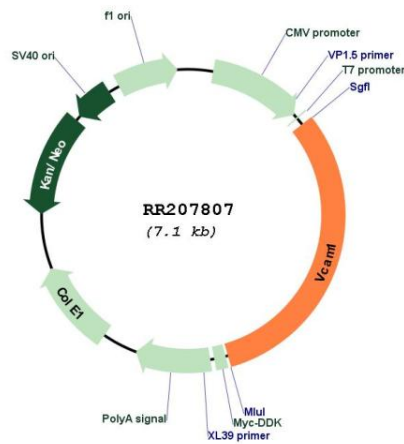
**UniProt ID:** [P29534](#)

**Cytogenetics:** 2q41

**MW:** 81.2 kDa

**Gene Summary:** binds integrin very late antigen (VLA4); plays a role in cell adhesion [RGD, Feb 2006]

**Product images:**



Circular map for RR207807