

Product datasheet for **RC232963**

CD166 (ALCAM) (NM_001243281) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD166 (ALCAM) (NM_001243281) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ALCAM
Synonyms:	CD166; MEMD
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC232963 representing NM_001243281
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAATCCAAGGGGCCAGTTCCTGCCGTCTGCTCTTCTGCCTTTGATCTCCGCCACCGTCTTCAGGC
 CAGGCCTTGATGGTATACTGTAATTCAGCATATGGAGATACCATTATCATACCTTGCCGACTTGACGT
 ACCTCAGAATCTCATGTTTGCCAATGGAATATGAAAAGCCGATGGCTCCCCAGTATTTATTGCCTTC
 AGATCCTCTACAAAGAAAAGTGTGCAGTACGACGATGTACCAGAATACAAAGACAGATTGAACCTCTCAG
 AAAACTACACTTTGTCTATCAGTAATGCAAGGATCAGTGATGAAAAGAGATTTGTGTGCATGCTAGTAAC
 TGAGGACAACGTGTTTGAGGCACCTACAATAGTCAAGGTGTTCAAGCAACCATCTAAACCTGAAATTGTA
 AGCAAAGCACTGTTTCTCGAAACAGAGCAGCTAAAAAGTTGGGTGACTGCATTTCAGAAGACAGTTATC
 CAGATGGCAATATCACATGGTACAGGAATGAAAAGTGTACATCCCCTGAAGGAGCGGTGGTCATAAT
 TTTTAAAAAGGAAATGGACCCAGTGACTCAGCTCTATACCATGACTTCCACCCTGGAGTACAAGACAACC
 AAGGCTGACATACAAATGCCATTCACCTGCTCGGTGACATATTATGGACCATCTGGCCAGAAAACAATTC
 ATTCTGAACAGGCAAGTATTTGATATTTACTATCCTACAGAGCAGGTGACAATACAAGTGCTGCCACCAAA
 AAATGCCATCAAAGAAGGGGATAACATCACTCTTAAATGCTTAGGGAATGGCAACCCTCCCCAGAGGAA
 TTTTGTGTTTACTTACCAGGACAGCCGAAGGAATAAGAAGCTCAAATACTTACACACTGACGGATGTGA
 GGCGCAATGCAACAGGAGACTACAAGTGTCCCTGATAGACAAAAAAGCATGATTGCTTCAACAGCCAT
 CACAGTTCATATTTGGATTTGTCCTTAAACCAAGTGGAGAAGTACTAGACAGATTGGTGATGCCCTA
 CCCGTGTCATGCAACAATCTGCTAGCAGGAATGCAACTGTGGTATGGATGAAAGATAACATCAGGCTTC
 GATCTAGCCCCTCATTTCTAGTCTTATTATCAGGATGCTGAAACTATGCTCGGAAACTGCTCTGCA
 GGAGGTTGAAGGACTAAAGAAAAGAGAGTCACTGACTCTCATTGTAGAAGGCAAACCTCAAATAAAAATG
 ACAAAGAAAAGTATCCAGTGGACTATCTAAAACAATAATCTGCCATGTGGAAGTTTTCCAAAGCCAG
 CCATTCAATGGACAATTACTGGCAGTGGAGCGTCATAAACCAACAGAGGAATCTCCTTATATTAATGG
 CAGGTATTATAGTAAAATTATCATTTCCTGAAGAGAATGTTACATTAACCTGCACAGCAGAAAACCAA
 CTGGAGAGAACAGTAACTCCTTGAATGTCTCTGCTATAAGTATCCAGAACACGATGAGGCAGACGAGA
 TAAGTGATGAAAACAGAGAAAAGGTGAATGACCAGGCAAACTAATTGTGGGAATCGTTGTTGGTCTCT
 CCTGTGCCCTTGTGCTGGTGTCTACTGGCTGTACATGAAGAAGTCAAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC232963 representing NM_001243281
 Red=Cloning site Green=Tags(s)

MESKGASSCRLLFCLLISATVFRPLGWYTVNSAYGDTIIIPCRLDVQPQLMFGKWKYKPKDPGSPVFI
 RSSTKKSVOYDDVPEYKDRNLNLSENYTLSISNARISDEKRFVCMCLVTEENVFEAPTIVKVFQPSKPEIV
 SKALFLETEQLKKLGDCISEDSYDPGNI TWYRNGKVLHPLEGAVVIFKKEMDPVTQLYTMTSTLEYKTT
 KADIQMPFTCSVTYYGPGSQKTIHSEQAVFDIYYPTQVTIQVLPKNAIKEGDNITLKLGNPNPPPEE
 FLFYLPGQPEGIRSSNTYTLTDVRRNATGDYKCSLIDKKSMIASTAITVHYLDLSLNPSGEVTRQIGDAL
 PVSCTISASRNATVVMKDNIRLRSSPSFSSLHYQDAGNYVCETALQEVEGLKKRESLTLIVEGKPKQIKM
 TKKTDPSGLSKTIIICHVEGFPKPAIQWTITGSGSVINQTEESPYINGRYYSKIIISPEENVTLTCTAENQ
 LERTVNSLNVSAISIPHEDEADEISDENREKVNDQAKLIVGIVVGLLLAALVAGVYVWLYMKKSK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

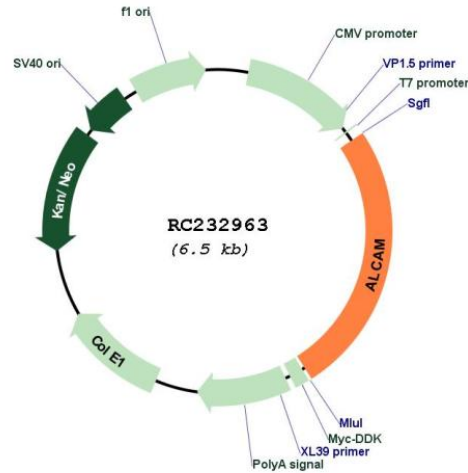
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001243281
ORF Size:	1665 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:	<ol style="list-style-type: none">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_001243281.1 , NP_001230210.1
RefSeq Size:	2961 bp
RefSeq ORF:	1668 bp
Locus ID:	214
Cytogenetics:	3q13.11
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs)
MW:	62.4 kDa
Gene Summary:	This gene encodes activated leukocyte cell adhesion molecule (ALCAM), also known as CD166 (cluster of differentiation 166), which is a member of a subfamily of immunoglobulin receptors with five immunoglobulin-like domains (VVC2C2C2) in the extracellular domain. This protein binds to T-cell differentiation antigene CD6, and is implicated in the processes of cell adhesion and migration. Multiple alternatively spliced transcript variants encoding different isoforms have been found. [provided by RefSeq, Aug 2011]