

Product datasheet for **RC231767**

CD166 (ALCAM) (NM_001243283) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CD166 (ALCAM) (NM_001243283) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CD166
Synonyms: CD166; MEMD
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC231767 representing NM_001243283
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAATCCAAGGGGCCAGTTCCTGCCGTCGCTCTTCTGCCTTTGATCTCCGCCACCGTCTTCAGGC
CAGGCCTGGATGGTAACTGTAATTCAGCATATGGAGATACCATTATCATACCTTGCCGACTTGACGT
ACCTCAGAATTCATGTTGGCAAATGAAATATGAAAAGCCGATGGCTCCCCAGTATTTATTGCCTTC
AGATCCTCTACAAAGAAAAGTGTGCAGTACGACGATGTACCAGAATACAAAGACAGATTGAACCTCTCAG
AAAACACTTTGTCTATCAGTAATGCAAGGATCAGTGATGAAAAGAGATTTGTGTGCATGCTAGTAAC
TGAGGACAACGTGTTGAGGCACCTACAATAGTCAAGGTGTTAGTAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC231767 representing NM_001243283
Red=Cloning site Green=Tags(s)
MESKGASSCRLLFCLLISATVFRPGLGWYTVNSAYGDTIIIPCRLDVQPQLMFGKWKYEKPDGSPVFI
AFRSSTKKSQYDDVPEYKDRNLNSENITLSISNARISDEKRFVCMCLVTEEDNVFEAPTIVKVF
SK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_001243283

ORF Size: 399 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_001243283.1](#), [NP_001230212.1](#)

RefSeq Size: 2075 bp

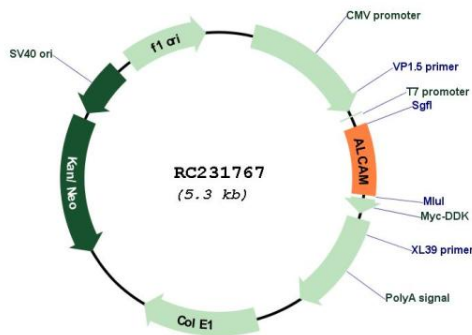
RefSeq ORF: 402 bp

Locus ID: 214

UniProt ID: [Q13740](#)
Cytogenetics: 3q13.11
Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
Protein Pathways: Cell adhesion molecules (CAMs)
MW: 15.6 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]

Product images:



Circular map for RC231767