

## Product datasheet for **RG219251**

### CD166 (ALCAM) (NM\_001627) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD166 (ALCAM) (NM_001627) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CD166
Synonyms:	CD166; MEMD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG219251 representing NM\_001627  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAATCCAAGGGGCCAGTTCCTGCCGTCTGCTCTTCTGCCTCTTGATCTCCGCCACCGTCTTCAGGC  
 CAGGCCTTGGATGGTATACTGTAATTCAGCATATGGAGATACCATTATCATACCTTGCCGACTTGACGT  
 ACCTCAGAATCTCATGTTTGGCAAATGGAATATGAAAAGCCGATGGCTCCCCAGTATTTATTGCCTTC  
 AGATCCTCTACAAAGAAAAGTGTGCAGTACGACGATGTACCAGAATACAAAGACAGATTGAACCTCTCAG  
 AAAACTACACTTTGTCTATCAGTAATGCAAGGATCAGTGATGAAAAGAGATTTGTGTGCATGCTAGTAAC  
 TGAGGACAACGTGTTTGGAGCACCTACAATAGTCAAGGTGTTCAAGCAACCATCTAAACCTGAAATTGTA  
 AGCAAAGCACTGTTTCTCGAAACAGAGCAGCTAAAAAGTTGGGTGACTGCATTTCAGAAGACAGTTATC  
 CAGATGGCAATATCACATGGTACAGGAATGAAAAGTGTACATCCCCTTGAAGGAGCGGTGGTCATAAT  
 TTTTAAAAAGGAAATGGACCCAGTGACTCAGCTCTATACCATGACTTCCACCCTGGAGTACAAGACAACC  
 AAGGCTGACATACAAATGCCATTCACCTGCTCGGTGACATATTATGGACCATCTGGCCAGAAAACAATTC  
 ATTCTGAACAGGCAAGTATTTGATATTTACTATCCTACAGAGCAGGTGACAATACAAGTGCTGCCACCAAA  
 AAATGCCATCAAAGAAGGGGATAACATCACTCTTAAATGCCTTAGGGAATGGCAACCTCCCCAGAGGAA  
 TTTTGTGTTTACTTACCAGGACAGCCGAAGGAATAAGAAGCTCAAATACTTACACACTGACGGATGTGA  
 GGCGCAATGCAACAGGAGACTACAAGTGTCCCTGATAGACAAAAAAGCATGATTGCTTCAACAGCCAT  
 CACAGTTCATATTTGGATTTGTCCTTAAACCAAGTGGAGAAGTACTAGACAGATTGGTGATGCCCTA  
 CCCGTGTCATGCACAATATCTGCTAGCAGGAATGCAACTGTGGTATGGATGAAAGATAACATCAGGCTTC  
 GATCTAGCCCGTCATTTTCTAGTCTTTCATTATCAGGATGCTGAAAACATGTCTCGGAAACTGCTGCA  
 GGAGTTGAAGGACTAAAGAAAAGAGAGTCATTGACTCTCATTGTAGAAGGCAAACCTCAAATAAAAATG  
 ACAAAGAAAACCTGATCCCAGTGGACTATCTAAAACAATAATCTGCCATGTGGAAGTTTTCCAAAGCCAG  
 CCATTCATGACAATTACTGGCAGTGGAGCGTCATAAACCAACAGAGGAATCTCCTTATATTAATGG  
 CAGGTATTATAGTAAAATTATCATTTCCCTGAAGAGAATGTTACATTAACCTGCACAGCAGAAAACCAA  
 CTGGAGAGAACAGTAACTCCTTGAATGTCTCTGCTATAAGTATTCCAGAACACGATGAGGCAGACGAGA  
 TAAGTGATGAAAACAGAGAAAAGGTGAATGACCAGGCAAACTAATTGTGGGAATCGTTGTTGGTCTCCT  
 CCTTGCTGCCCTTGTGCTGGTGTGCTCTACTGGCTGTACATGAAGAAGTCAAAGACTGCATCAAAACAT  
 GTAACAAGGACCTCGGTAATATGGAAGAAAACAAAAGTTAGAAGAAAACAATCAGAAAACCTGAAGCC

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>RG219251 representing NM\_001627  
 Red=Cloning site Green=Tags(s)

MESKGASSCRLLFCLLISATVFRPGLGWYTVNSAYGDTIIIPCRLDVPQNL MFGWKYKPKDPGSPVFI AF  
 RSSTKKSQYDDVPEYKDRNLSENITL SISRISDEKRFVCMVTE DNVFEAPTIVKVFQPSKPEIV  
 SKALFLETEQLKKGDCISEDSYDPGNITWYRNGKVLHPLEGAVVIIFFKEMDPVTQLYTMSTLEYKTT  
 KADIQMPFTCSVYYGPSQKTIHSEQAVFDIYYPTQVTIQVLPKNAIKEGDNITLKLGNPNPPEE  
 FLFYLPQPEGIRSSNTYTLTDVRRNATGDYKCSLIDKKSMIASTAITVHYLDLSLNPSGEVTRQIGDAL  
 PVSCTISASRNATVVMKDNIRLRSSPSFSSLHYQDAGNYVCETALQEVEGLKKRESLTLIVEGKPKQIKM  
 TKKTDPSGLSKTIICHVEGFPAIQWTITGSGSVINQTEESPYINGRYSKIIISPEENVTLTCTAENQ  
 LERTVNSLNVSAISIPEHDEADEISDENREKVNDQAKLIVGIVGLLLLAALVAGVVYWL YMKKSKT ASKH  
 VNKDLGNMEENKLEENNHKTEA

**TRTRPLE - GFP Tag - V**

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001627

**ORF Size:** 1749 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\\_001627.3](#)

**RefSeq Size:** 4760 bp

**RefSeq ORF:** 1752 bp

**Locus ID:** 214

**UniProt ID:** [Q13740](#)

**Cytogenetics:** 3q13.11

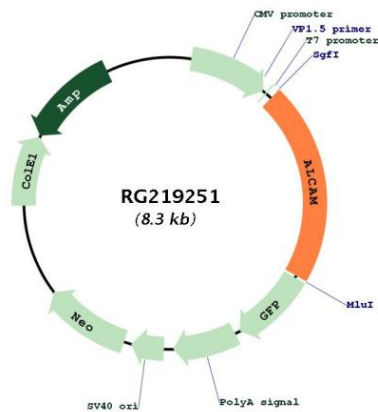
**Domains:** ig

**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

**Protein Pathways:** Cell adhesion molecules (CAMs)

**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 RG219251