

Product datasheet for **RG232963**

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:	TurboGFP
Symbol:	ALCAM
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:

>RG232963 representing NM_001243281
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAATCCAAGGGGCCAGTTCCTGCCGTCTGCTCTTCTGCCTTTGATCTCCGCCACCGTCTTCAGGC
 CAGGCCTTGGATGGTATACTGTAATTCAGCATATGGAGATACCATTATCATACCTTGCCGACTTGACGT
 ACCTCAGAATCTCATGTTTGGCAAATGGAATATGAAAAGCCCGATGGCTCCCCAGTATTTATTGCCTTC
 AGATCCTCTACAAAGAAAAGTGTGCAGTACGACGATGTACCAGAATACAAAGACAGATTGAACCTCTCAG
 AAAACTACACTTTGTCTATCAGTAATGCAAGGATCAGTGATGAAAAGAGATTTGTGTGCATGCTAGTAAC
 TGAGGACAACGTGTTTGGAGCACCTACAATAGTCAAGGTGTTCAAGCAACCATCTAAACCTGAAATTGTA
 AGCAAAGCACTGTTTCTCGAAACAGAGCAGCTAAAAAGTTGGGTGACTGCATTTCAGAAGACAGTTATC
 CAGATGGCAATATCACATGGTACAGGAATGAAAAGTGTACATCCCCTTGAAGGAGCGGTGGTCATAAT
 TTTTAAAAAGGAAATGGACCCAGTGACTCAGCTCTATACCATGACTTCCACCCTGGAGTACAAGACAACC
 AAGGCTGACATACAAATGCCATTCACCTGCTCGGTGACATATTATGGACCATCTGGCCAGAAAACAATTC
 ATTCTGAACAGGCAAGTATTTGATATTTACTATCCTACAGAGCAGGTGACAATACAAGTGCTGCCACCAAA
 AAATGCCATCAAAGAAGGGGATAACATCACTCTTAAATGCTTAGGGAATGGCAACCCTCCCCAGAGGAA
 TTTTGTGTTTACTTACCAGGACAGCCGAAGGAATAAGAAGCTCAAATACTTACACACTGACGGATGTGA
 GGCGCAATGCAACAGGAGACTACAAGTGTCCCTGATAGACAAAAAAGCATGATTGCTTCAACAGCCAT
 CACAGTTCATATTTGGATTTGTCCTTAAACCAAGTGGAGAAGTACTAGACAGATTGGTGATGCCCTA
 CCCGTGTCATGCACAATATCTGCTAGCAGGAATGCAACTGTGGTATGGATGAAAGATAACATCAGGCTTC
 GATCTAGCCCGTCATTTTCTAGTCTTATTATCAGGATGCTGAAACTATGCTCGGAAACTGCTCTGCA
 GGAGGTTGAAGGACTAAAGAAAAGAGAGTCACTGACTCTCATTGTAGAAGGCAAACCTCAAATAAAAATG
 ACAAAGAAAAGTATCCAGTGGACTATCTAAAACAATAATCTGCCATGTGGAAGTTTTCCAAAGCCAG
 CCATTCATGGACAATTACTGGCAGTGGAGCGTCATAAACCAACAGAGGAATCTCCTTATATTAATGG
 CAGGTATTATAGTAAAATTATCATTTCCCTGAAGAGAATGTTACATTAACCTGCACAGCAGAAAACCAA
 CTGGAGAGAACAGTAACTCCTTGAATGTCTCTGCTATAAGTATTCCAGAACACGATGAGGCAGACGAGA
 TAAGTGATGAAAACAGAGAAAAGGTGAATGACCAGGCAAACTAATTGTGGGAATCGTTGTTGGTCTCCT
 CCTGTGCCCTTGTGCTGGTGTCTACTGGCTGTACATGAAGAAGTCAAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG232963 representing NM_001243281
 Red=Cloning site Green=Tags(s)

MESKGASSRLLFCLLISATVFRPGLGWYTVNSAYGDTIIPCRLDVQPQLMFGKWKYEKPDGSPVFI
 RSSTKKSQYDDVPEYKDRLNLSNYTLSSNARISDEKRFVCMVLTEDNVFEAPTIVKVFQPSKPEIV
 SKALFLETEQLKKGDCISEDSYDPGNITWYRNGKVLHPLEGAVVIIFFKEMDPVTQLYTMTSTLEYKTT
 KADIQMPFTCSVTYYGPSGQKTIHSEQAVFDIYYPTQVTIQVLPKNAIKEGDNITLKLGNPNPPEE
 FLFYLPQPPEGIRSSNTYTLTDVRRNATGDYKCSLIDKKSMAIATAITVHYLDLSLNPSGEVTRQIGDAL
 PVSCTISASRNATVWVKDNIRLRSSPSFSSLHYQDAGNYVCETALQEVEGLKKRESLTLIVEGKPKIKM
 TKKTDPSGLSKTIICHVEGFPAIQWTITGSGSVINQTEESPYINGRYYSKIIISPEENVTLTCTAENQ
 LERTVNSLNVSAISIPEHDEADEISDENREKVNDQAKLIVGIVGLLLAALVAGVYVWLYMKKSK

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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)
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]