

Product datasheet for **MC206589**

Alcam (BC027280) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Alcam (BC027280) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Alcam
Synonyms:	CD166, DM-GRASP, MuSC, MGC27910, BEN, SC1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >BC027280
 CGTGGAGGAAAGTTGCGTGTGGCACAGACCCGACGGCGCAGCGCCACAGTCCCCGGGGGACCGTGTGTCT
 TGGAAAAAAGTCGCTGTCCCCCTAAGGCCGAGACCCACAAGCGAGCGGGCCCCGTGGGCCCGGGGACGACG
 CCCCCTCTGCGGCGTGGACTTTGTGCGTGGCCTTCTAGGAGGAGGAATATGGCATCTAAGGTGTCCCCT
 TCTTGGCGTCTGGTTTTCTGCCTCTTGATCTCCGCCGCGTCTCAGACCAGGCCTTGGATGGTACACTG
 TCAACTCAGCATATGGAGACACCATTGTCATGCCTTCCCGTCTCGATGTACCTCAGAACCTCATGTTTGG
 CAAATGGAAATATGAAAAGCCCGATGGTCCCCAGTATTTATTGCATTCCGATCTTCTACGAAGAAAAGT
 GTGCAGTATGATGATGCCAGAGTACAAGGACAGACTGAGCCTCTCAGAAAACCTACACTTTGTCTATCG
 CCAATGCTAAGATCAGTGATGAGAAGAGATTTGTGTCATGCTAGTGACCAGGACAATGTGTTTGAAGC
 ACCTACCTAGTCAAGGTGTTCAAGCAACCATCTAAACCTGAAATTGTAACAAGCACCCTTTCTTGAA
 ACAGATCAGTGAAAAAGTTAGGTGACTGCATTTCAAGAGACAGTTACCCAGATGGCAACATCACATGGT
 ACAGGAATGGCAAAGTGTGCAGCCTGTGAAGGAGAGGTGGCCATACTTTTTAAAAAGGAAATTGATCC
 AGGAACTCAGTTGTATACAGTGACTTCTCCTTGGAGTACAAGACAACCAGATCTGACATACAAATGCCA
 TTCACCTGTTCTGTGACATATTATGGACCCTCCGGCCAGAAAACAATTTATCCGAACAAGAAATCTTTG
 ATATTTACTATCCTACAGAGCAGGTGACAATACAAGTGTGCCACCAAAAATGCCATCAAGAAGGGGA
 CAACATCACCCCTCAGTGTGGGGAATGGCAACCCACCTCCTGAGGAGTTCATGTTTTACTTACCAGGA
 CAGCCTGAAGGCATAAGAAGCTCAAACACTTACACTGACAGATGTGAGACGCAATGCCACAGGGGACT
 ACAAATGCTCACTCATTGACAAAAGGAACATGGCGGCTTCAACGACCATCACAGTTCACTACTTGGATTT
 ATCCTTAAACCAAGTGGGGAGGTGACCAAGCAGATTGGCGATACCCTGCCTGTGTGCGTGCACAATATCT
 GCAAGTAGGAACGCGACTGTGGTGTGGATGAAGGATAACATCCGGCTCCGGTCCAGCCCTTCTTTTCCA
 GTCTTCATTATCAGGATGCTGGGAACTATGTCTGTGAACTGCTCTTCCAGGAGTTGAGGGACTGAAGAA
 AAGGGAGTCGCTGACACTCATTGTAGAAGGAAACCTCAAATCAAATGACTAAGAAAACGACCCCACT
 GGACTGTCTAAAACATAAATCTGCCACGTGGAAGGGTTTCCAAAGCCAGCTATACATTGGACCATTACCG
 GCAGTGGGAGCGTCATAAACCAACAGAGGAGTCTCCTTATATTAAATGGCAGGTATTATAGTAAAAATTAT
 CATTTCCCTGAGGAGAATGTTACATTAACCTTGCACAGCAGAAAACCAACTGGAGAGAACAGTAACTCC
 CTGAATGTCTCTGCGATAAGTATTCAGAGCACGATGAGGCAGACGATATAAGTGATGAAAAACAGAGAAA
 AGGTGAATGACCAGGCAAAACTGATTGTGGGAATTGTTGTTGGTCTCCTCCTCGCTGCCCTCGTTGCTGG
 TGTGCTACTGGCTGTACATGAAGAAGTCCAAAACCTGCATCAAAACATGTAACAAGGACCTTGGTAAT
 ATGGAGGAAAATAAAAAGCTGGAAGAAAACAATCACAAAACAGAGCCTAAGAGAGGAGCGGATTGGATA
 GCCTGAGGAAAAACATATAAGCAAATTGAAGCATGAACGTGGATTGTATTTAAGACATATAACAAGACA
 AATGACAGCAATTCATGGTTCAAGTATAAAGCAGTTTCTTCTACCAAGCTGTCACAGGATCTTAGAGAAT
 TATCTCAAGTAAAACAGTGAAATAAAGTTATAAAATAAAATTACAAGATTTGGCAGCCATGATAATAGGT
 CATATGTTGTATTTCTGTTTGGTTTTTTTTCTGTAATGTCTGCACTAAGGGTTTCTTTCAGTTTGCCCT
 TTATGTAATTTTTTACGTAGCTATTTTTATACACTGTAAGCTTTGTTCTGGGAGTGGCTGTTAATTGGA
 TGTATAATGTAACGTTTTATTTCAATTGTTATATGGATAGTCTGAGCAGGTACGGTTCTGATTCTGATT
 GCTATCAATAACACCCCATACTTTCTTTGAACATACTTTGACCTGAAGCTCAAAGGTGGCAGTTGTGAGA
 TTGGGACACATATCTTGCCCAATCAGAAGCTGTTTCTTATCTTGAGAGTTAGGAGCACCATAGGATATGA
 TGGTCTATGTGCTGCCAACAGGCTCCCCAAGCGAGTCACAAACACATACAGCAACACTACTTGAGAATG
 GTACTCCCAAACGACAATTTTTCTTTTCTGAAAAGATATACACATAGTGTGTATCACATTTACTTAT
 TGACACTTACTAAGAAATGACATTCTGTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: EcoRI-NotI

ACCN: BC027280

Insert Size: 1752 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<u>BC027280</u> , <u>AAH27280</u>
RefSeq Size:	2720 bp
RefSeq ORF:	1752 bp
Locus ID:	11658
Cytogenetics:	16 B5
Gene Summary:	Cell adhesion molecule that mediates both heterotypic cell-cell contacts via its interaction with CD6, as well as homotypic cell-cell contacts. Promotes T-cell activation and proliferation via its interactions with CD6 (By similarity). Contributes to the formation and maturation of the immunological synapse via its interactions with CD6 (By similarity). Mediates homotypic interactions with cells that express ALCAM (PubMed:24740813). Mediates attachment of dendritic cells onto endothelial cells via homotypic interaction. Inhibits endothelial cell migration and promotes endothelial tube formation via homotypic interactions (PubMed:23169771). Required for normal organization of the lymph vessel network (PubMed:23169771). Required for normal hematopoietic stem cell engraftment in the bone marrow (PubMed:24740813). Plays a role in hematopoiesis; required for normal numbers of hematopoietic stem cells in bone marrow (PubMed:25730656). Promotes in vitro osteoblast proliferation and differentiation (PubMed:25730656). Promotes neurite extension, axon growth and axon guidance; axons grow preferentially on surfaces that contain ALCAM (By similarity). Mediates outgrowth and pathfinding for retinal ganglion cell axons (PubMed:15345243).[UniProtKB/Swiss-Prot Function]