

## Product datasheet for **RN201706**

### Alcam (NM\_031753) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Alcam (NM_031753) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Alcam
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN201706 representing NM\_031753  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCATCTAAAGGGTCCCCTTCTTGGCGTCTGGTTTTCTGCCTCTTGATCTCCGCCGGTCTCAGAC  
 CAGGCCTCGGATGGTACTGTCAACTCAGCATACGGAGATACCATTTGCATGCCTGCAGACTGGATGT  
 ACCTCAGAACCTCATGTTTGGCAAATGGAATATGAAAAGCCTGATGGTCCCCAGTATTTATTGCATTC  
 AGATCTTCTACAAAGAAAAGTGTGCAGTATGATGATGTACCAGAGTACAAGGACAGACTGAGCCTCTCAG  
 AAAACTACTCTGTCTATCAACAATGCAAAGTACAGTACGAAAAGAGATTTGTGTGCATGCTAGTGAC  
 CGAGGACAACGTGTTTGGAGCACCTACCCTGGTCAAGGTGTTCAAGCAACCATCTAAACCTGAAATTGTA  
 AACAGAGCAGCGTTTCTGAAACAGAGCAGCTAAAAAGTTAGGTGACTGCATTTCAAGAGACAGTTACC  
 CAGACGGCAACATCACGTGGTATAGGAATGGGAAAGTGTACAGCCTGTTGATGGAGAGGTGCCATACT  
 TTTTAAAAAGGAAATTGATCCAGGTACTCAGTTGTATACCATGACTTCCTCCTTGGAGTACAAGACAACC  
 AAGTCTGACATACAAATGCCATTCACCTGTTCTGTGACATATTATGGACCTTCGGGCCAGAAAACAATTT  
 ATTCTGAACAAGCAATCTTTGATATTTACTATCCTACAGAGCAGGTGACAATACAAGTACTGCCACCAAA  
 AAATGCCATCAAAGAAGGGGACAACATCACCTTCAGTGCTTGGGGAATGGCAACCCACCTCCTGAGGAG  
 TTCATGTTTTACTTACCAGGGCAGGCTGAAGGCATAAGAAGCTCAAACACTTACACACTGACAGACGTGA  
 GACGCAATGCCACCGGGGACTACAAATGTTCTCTCATCGACCAAAGAAACATGGCAGCTTCAACAACCAT  
 CACTGTTCACTACTTGGATTTATCCTTAAACCAAGTGGGGAAGTGACCAAGCAGATCGGTGATACCCTG  
 CCTGTGCTTGCACAATATCTGCAAGTAGGAATGCAACTGTGGTGGATGAAGGATAACATCAGGCTCC  
 GATCTAGTCCATCCTTTCTAGTCTTATTATCAGGATGCTGGAACTATGCTGTGAAACTGCTCTTCA  
 GGAGTTGAGGGACTGAAGAAAAGGGAGTCGCTGACCCTCATCGTAGAAGGAAAACCTCAAATCAAATG  
 ACAAGAAAACCTGATCCCAGTGGACTGTCTAAGACTATAATCTGCCATGTGGAAGGGTTTCCAAAGCCAG  
 CTATACAGTGGACCATTACCGGCAGTGGAAAGCGTCATAAACCAAACAGAGGAGTCTCCTTATATTAATGG  
 CAGGTATTATAGTAAAATTATCATTTCCCTGAGGAGAATGTTACATTAACCTGCACAGCAGAAAACCAA  
 CTGGAGAGAACAGTAAACTCCCTGAATGTCTCTGCGATAAGTATTCCAGAACACGATGAGGCAGACGATA  
 TAAGTGTGAAAACAGAGAAAAGGTGAATGACCAGGCCAAACTAATTGTGGGCATTGTGGTTGGTCTCCT  
 CCTCGCCGCCCTCGTCGGGTGTGCTACTGGCTGTACATGAAGAAATCGAAAACCTGCATCAAAACAT  
 GTAACAAGGACCTTGGTAATATGGAGGAGAATAAAAAGCTAGAAGAAAACAATCACAAAACAGAAGCCT  
 AA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_031753

**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:**

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\\_031753.1](#), [NP\\_113941.1](#)

**RefSeq Size:** 2866 bp

**RefSeq ORF:** 1752 bp

**Locus ID:** 79559

**UniProt ID:** [O35112](#)

**Cytogenetics:** 11q21

**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. Mediates attachment of dendritic cells onto endothelial cells via homotypic interaction. Inhibits endothelial cell migration and promotes endothelial tube formation via homotypic interactions. Required for normal organization of the lymph vessel network. Required for normal hematopoietic stem cell engraftment in the bone marrow. Plays a role in hematopoiesis; required for normal numbers of hematopoietic stem cells in bone marrow. Promotes in vitro osteoblast proliferation and differentiation (By similarity). 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 (By similarity).[UniProtKB/Swiss-Prot Function]