

Product datasheet for **MR209127L4V**

Alcam (NM_009655) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

| | |
|----------------------------------|---|
| Product Type: | Lentiviral Particles |
| Symbol: | Alcam |
| Synonyms: | AI853494; BEN; CD166; DM-GRASP; MuSC; SC1 |
| Mammalian Cell Selection: | Puromycin |
| Vector: | pLenti-C-mGFP-P2A-Puro (PS100093) |
| Tag: | mGFP |
| ACCN: | NM_009655 |
| ORF Size: | 1749 bp |

ORF Nucleotide Sequence: The ORF insert of this clone is exactly the same as(MR209127).

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.

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|----------------------|-----------------------------|
| RefSeq: | NM_009655.2 |
| RefSeq Size: | 4979 bp |
| RefSeq ORF: | 1752 bp |
| Locus ID: | 11658 |
| UniProt ID: | Q61490 |
| 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]