

Product datasheet for **MC216148**

Cadm1 (NM_207675) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cadm1 (NM_207675) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cadm1
Synonyms:	2900073G06Rik; 3100001I08Rik; AI987920; BI2; Igsf4; Igsf4a; Necl2; RA175; RA175A; RA175B; RA175C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC216148 representing NM_207675
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGAGTGTGTGCTGCCGAGCGGATCCAGTGTGCGCGGCAGCGGCTGTGGCGCGCGCGCGCGCC
 CTCAGGGCTCCGGCTCCGGCTCCTGCTGTTGCTCCTTTTCGGCCGCGCACTGATCCCCACAGGTGATGG
 ACAGAATCTGTTTACTAAAGACGTGACAGTGATTGAAGGAGAAGTGGCAACCATCAGCTGCCAGGTCAAT
 AAGAGTGACGACTCAGTGATCCAGCTCCTGAACCCCAACAGGCAGACCATTTACTTCAGGGACTTCAGGC
 CTTTGAAGGACAGCAGGTTTCAGCTGCTGAATTTTCTAGCAGTGAACCTCAAAGTGTCACTGACGAATGT
 CTCAATCTCGGATGAAGGGAGATACTTCTGCCAGCTCTACACGGACCCCCACAGGAGAGTTACACCACC
 ATCACAGTCTGGTTCCTCCACGTAACCTGATGATCGATATCCAGAAAGACACGGCAGTTGAAGGGGAGG
 AGATTGAAGTCAACTGTACTGCCATGGCCAGCAAGCCAGCGACGACCATCAGGTGGTTCAAAGGGAACAA
 GGAACCTCAAAGGCAAATCAGAGGTGGAGGAGTGGTCGGACATGTACACTGTGACCAGTCAGCTGATGCTG
 AAGGTGCAACAAGGAGGACGACGGGGTCCCGGTGATCTGCCAGGTGGAGCACCCCTGCGGTCACTGGAACCC
 TGCAGACCCAGCGCTATCTAGAAGTGCAGTATAAACCGCAAGTGCATATCCAGATGACTTACCCTCTGCA
 AGGCCTAACCCGGGAAGGGGATGCATTTGAGTTAACGTGTGAAGCCATCGGGAAGCCCCAGCCTGTGATG
 GTAACCTGGGTGAGAGTCGATGATGAAATGCCTCAACATGCCGTACTGTCTGGGCCAAACCTGTTTCATCA
 ATAACCTAAACAAAACAGATAACGGTACTTACCCTGTGAGGCTTCCAACATAGTGGGAAAGGCTCATTC
 GGACTATATGCTGATGTATACGATCCCCCACAACATAACCTCCTCCCAACAACACCACCACCCTACC
 ACCACCACCACCACCACCTTACCATCATCACAGACACCACGGCGACGACAGAACCAGCAGTTCAGC
 ATTCTCGAGCAGGTGAAGAGGGGACCATTGGGGCAGTGGACCACGCACTGATTGGTGGCGTCTGATCCGT
 GGTGGTGTGGCCATGCTATGCTTGTCTCATATTCTGGGCCGCTATTTTGGCCAGACATAAAGGTACATAC
 TCACTCATGAAGCCAAAGGAGCCGATGACGCAGCAGACGACAGCAGCTATAATCAATGCAGAAGGAG
 GACAGAACAACCTCGAAGAAAAGAAAGTACTTCATCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_207675

Insert Size: 1371 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_207675.2](#), [NP_997558.2](#)

RefSeq Size: 4387 bp

RefSeq ORF: 1371 bp

Locus ID: 54725

UniProt ID: [Q8R5M8](#)

Cytogenetics: 9 A5.3

Gene Summary: Mediates homophilic cell-cell adhesion in a Ca(2+)-independent manner. Also mediates heterophilic cell-cell adhesion with CADM3 and NECTIN3 in a Ca(2+)-independent manner. Acts as a tumor suppressor in non-small-cell lung cancer (NSCLC) cells. Interaction with CRTAM promotes natural killer (NK) cell cytotoxicity and interferon-gamma (IFN-gamma) secretion by CD8+ cells in vitro as well as NK cell-mediated rejection of tumors expressing CADM3 in vivo. May contribute to the less invasive phenotypes of lepidic growth tumor cells. In mast cells, may mediate attachment to and promote communication with nerves. CADM1, together with MITF, is essential for development and survival of mast cells in vivo. Acts as a synaptic cell adhesion molecule and plays a role in the formation of dendritic spines and in synapse assembly. May be involved in neuronal migration, axon growth, pathfinding, and fasciculation on the axons of differentiating neurons. May play diverse roles in the spermatogenesis including in the adhesion of spermatocytes and spermatids to Sertoli cells and for their normal differentiation into mature spermatozoa.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) encodes isoform a.