

Product datasheet for MC209995

Cadm1 (NM_001025600) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cadm1 (NM_001025600) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cadm1
Synonyms:	2900073G06Rik; 3100001I08Rik; AI987920; BI2; Igsf4; Igsf4a; Necl2; RA175; RA175A; RA175B; RA175C
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC209995 representing NM_001025600 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGAGTGCTGTGCTGCCGAGCGGATCCCAGTGTGCGGCGGCAGCGGCTGTGGCGGGCGGGCGGCGC
CTCCAGGGCTCCGGCTCCGGCTCCTGCTGTTGCTCCTTTCGGCCGCGCACTGATCCCCACAGGTGATGG
ACAGAATCTGTTACTAAAGACGTGACAGTGATTGAAGGAGAAGTGGCAACCATCAGCTGCCAGGTCAAT
AAGAGTGACGACTCAGTGATCCAGCTCCTGAACCCCAACAGGCAGACCATTTACTTCAGGGACTTCAGGC
CTTTGAAGGACAGCAGGTTTCAGCTGCTGAATTTTCTAGCAGTGAACAAAGTGTCACTGACGAATGT
CTCAATCTCGGATGAAGGGAGATACTTCTGCCAGCTCTACACGGACCCCCACAGGAGAGTTACACCACC
ATCACAGTCTGGTTCCTCCACGTAACCTTGATGATCGATATCCAGAAAAGACACGGCAGTTGAAGGGGAGG
AGATTGAAGTCAACTGTACTGCCATGGCCAGCAAGCCAGCGACGACCATCAGGTGGTTCAAAGGGAACAA
GGAACCTCAAAGGCAATCAGAGGTGGAGGAGTGGTCGGACATGTACACTGTGACCAGTCAGCTGATGCTG
AAGGTGCACAAGGAGGACGACGGGGTCCCGGTGATCTGCCAGGTGGAGCACCCCTGCGGTCACTGGAAACC
TGCAGACCCAGCGCTATCTAGAAGTGCAGTATAAACCCGAAGTGCATATCCAGATGACTTACCCTCTGCA
AGGCCTAACCCGGAAGGGGATGCATTTGAGTTAACGTGTGAAGCCATCGGGAAGCCCAAGCCTGTGATG
GTAACCTGGGTGAGAGTCGATGATGAAATGCCTCAACATGCCACTGTCTGGGCCAAACCTGTTTCATCA
ATAACCTAAACAAAACAGATAACCGTACTTACCGCTGTGAGGCTTCCAACATAGTGGGAAAAGGCTCATT
GGACTATATGCTGTATGTATACGATTCTCGAGCAGGTGAAGAGGGGACCATTGGGGCAGTGGACCACGCA
GTGATTGGTGGCGTCGTAGCCGTGGTGGTGTGGCCATGCTATGCTTGCTCATCATTCTGGGCCGTATT
TTGCCAGACATAAAGGTACATACTTCACTCATGAAGCCAAAGGAGCCGATGACGCAGCAGACGCAGACAC
AGCTATAATCAATGCAGAAGGAGGACAGAACAACCTCCGAAGAAAAGAGTACTTCAT**CTAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001025600
Insert Size:	1254 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:	NM_001025600.1 , NP_001020771.1
RefSeq Size:	4270 bp
RefSeq ORF:	1254 bp
Locus ID:	54725
UniProt ID:	Q8R5M8
Cytogenetics:	9 A5.3
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4) lacks two in-frame exons compared to variant 1. The resulting isoform (d) has the same N- and C-termini but is shorter compared to isoform a.</p>