

## Product datasheet for **RN213821**

### **Cadm1 (NM\_001012201) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cadm1 (NM_001012201) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Cadm1
Synonyms:	Igsf4a; Necl-2; sgigsf; TSLC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN213821 representing NM\_001012201  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGAGTCCTGTGCTGCCGAGCGGATCCAGTGTGCGCGGCAGCGGCTGTGGCGCGCGCGCGCGC  
 CTCAGGGCTCCGGCTCCGGCTCCTGCTGTTGCTCCTCTCGGCCCGGCACTGATCCCCACAGGTGATGG  
 GCAGAATCTGTTACTAAGGACGTGACGGTGATTGAAGGAGAAGTTGCAACCATCAGCTGTCAAGTCAAT  
 AAGAGTGACTCCGTGATTCAGTACTGAACCCCAACAGGCAGACCATTTACTTCAGGGACTTCAGGC  
 CTTTGAAGGACAGCAGGTTTCAGCTGCTGAATTTTCTAGCAGTGAACCTCAAAGTGTCACTGACAAATGT  
 CTCAATTCGGATGAAGGGAGGTACTTCTGCCAGCTCTACACGGACCCTCCGAGGAGAGTTATACCACC  
 ATCACAGTCTGGTCCCTCCACGTAACCTGATGATCGATATCCAGAAAGACACGGCAGTTGAAGGGGAGG  
 AGATTGAAGTCAACTGCACGGCCATGGCCAGCAAGCCGGCTACGACCATCAGGTGGTCAAAGGGAACAA  
 GGAACCTAAAGGCAAATCAGAGGTGGAAGAGTGGTCGGACATGTACACTGTGACCAGTCAGCTGATGCTG  
 AAGGTGCACAAGGAGGATGATGGAGTCCCAGTGATCTGCCAGGTGGAGCACCCCTGCGGTCACTGGAACC  
 TGCAGACCAGCGGTATCTAGAAGTGCAGTATAAACCGCAAGTGCAGATCCAGATGACTTATCCTCTGCA  
 AGGCCTAACCCGGGAAGGGGATGCATTCGAGTTAACGTGTGAAGCCACCGGAAGCCCCAGCCTGTGATG  
 GTAACCTGGGTGAGAGTCGATGACGAAATGCCTCAACATGCCGTTCTGTCTGGGCCGAATCTGTTTCATCA  
 ATAACCTAAACAAAACAGACAATGGTACTTACCCTGTGAGGCTTCCAACACAGTGGGAAAAGCTCATTC  
 GGACTATATGCTGATGTATACGATCCCCCACAACCTATCCCTCCTCCACAACAACCACCACCACCT  
 ACCACCACCACCACCACCACCACCTTACCATCATCACAGACACCACGGCGACGACAGAACCAGCAG  
 TTCACGGCCTTACTCAGTTGCCAATTCGCAGAAAGTGGACAGTGGAGTCTCTCAGATTCTCGAGC  
 AGGTGAAGAGGGCGCCATTGGGGCAGTGGACCACGCGGTGATTGGCGGCGTCGTAGCCGTGGTGGTGT  
 GCCATGCTATGTTTGTCTCATCTTCTGGGCCGCTATTTTCCAGACATAAAGGTACATACTTCACTCATG  
 AAGCCAAAGGAGCCGATGACGCAGCAGACGCAGACACAGCTATAATCAATGCAGAAGGAGGACAGAACAA  
 CTCGAAGAAAAGAAAGAGTACTTCAT**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001012201

**Insert Size:** 1431 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](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001012201.1, NP_001012201.1</u>
<b>RefSeq Size:</b>	1801 bp
<b>RefSeq ORF:</b>	1431 bp
<b>Locus ID:</b>	363058
<b>UniProt ID:</b>	<u>Q6AYP5</u>
<b>Cytogenetics:</b>	8q23
<b>Gene Summary:</b>	<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>