

## Product datasheet for MR216289

### Cadm3 (NM\_053199) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cadm3 (NM_053199) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cadm3
Synonyms:	BlgR; Igsf4b; Necl-1; Necl1; SynCAM3; Tsll1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR216289 representing NM_053199 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGGCCCTCCGCCCTGCCCTGCTCCTGCTCCTCGCTGCTCCTGGGCGCCCGGGGGCCAATC  
TTTCCCAGGACGATAGCCAGCCCTGGACATCTGATGAAACAGTTGTGGCTGGTGGCACAGTGGTTCTCAA  
GTGTCAAGTAAAAGACCATGAAGACTCATCTCTGCAGTGGTCTAACCTGCTCAGCAGACCCATACTTC  
GGGAGAAGAGAGCCCTTCGAGATAATCGGATTCAGCTGGTTAGCTCTACTCCCATGAGCTCAGCATCA  
GCATCAGCAATGTGGCGCTGGCCGATGAGGGGAGTACACGTGCTCCATCTTCACTATGCCTGTGCGAAC  
CGCAAGTCCCTTGTCACTGTGCTCGGAATCCACAGAAACCCATAATCACTGGTTATAAGTCATCATTG  
CGGAAAAGGAGACAGCCACTCTAAATTGTCACTTCTGGGAGCAAACCTGCAGCCAGCTCACCTGGA  
GGAAAGGTGACCAAGAACTCCACGGGGACCAACACGAATCCAGGAAGATCCCAACGGGAAAACCTTCAC  
TGTGAGCAGCTCAGTGTCACTCCAGGTTACCCGGGAGGATGATGGAGCAAACATCGTGTGCTCTGTGAAC  
CATGAATCTCTGAAGGGAGCCGACAGATCCACTTCTCAGCGCATTGAAGTGTATACACCAACAGCCA  
TGATTAGCCAGAACCTGCTCATCTCGAGAAGGCCAGAAGCTGTTGTTACATTGTGAGGGGCGTGGCAA  
TCCAGTCCCCCAGCAGTACGTGTGGTAAAGGAAGGCAGTGAGCCACCCCTCAAGATGACCAAGAGAGT  
GCTCTCATTTCCCTTTTTGAATAAGAGTGACAGTGGCACTTATGGCTGTACAGCCAAAGCAACATGG  
GCAGCTATACAGCCTACTTCACCCTCAATGTCAACGACCCAGTCCAGTGCCTCGCTCCTCAGTACCTA  
CCACGCCATCATTGGAGGATTGTGGCTTTCATTGCTTCTGCTGCTCATTCTGCTCATTTCCTTGGAA  
CACTATTTGATCCGGCACAAAGGAACCTACCTGACACACGAAGCGAAGGTTCCGACGATGCTCCAGATG  
CGGATACGGCCATCATCAACGCAGAAGGCGGGCAGTCAGGCGGGGATGACAAGAAGGAATATTTTCATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR216289 representing NM\_053199  
Red=Cloning site Green=Tags(s)

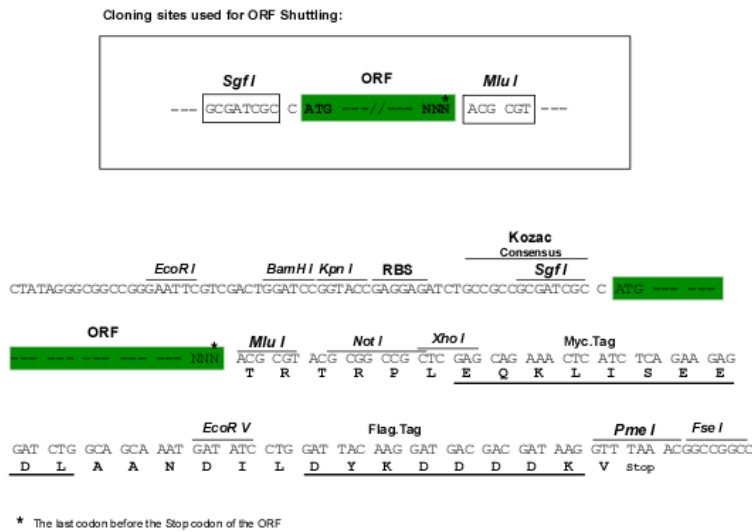
MGAPSALPLLLLLACSWAPGGANLSQDDSQPWTSDETVVAGGTVVLKQVKDHEDSSLQWSNPAQQTL YF  
 GEKRALRDNRIQLVSSSTPHEL S I S I S N V A L A D E G E Y T C S I F T M P V R T A K S L V T V L G I P Q K P I I T G Y K S S L  
 R E K E T A T L N C Q S S G S K P A A Q L T W R K G D Q E L H G D Q T R I Q E D P N G K T F T V S S S V S F Q V T R E D D G A N I V C S V N  
 H E S L K G A D R S T S Q R I E V L Y T P T A M I R P E P A H P R E G Q K L L L H C E G R G N P V P Q Q Y V V W K E G S E P P L K M T Q E S  
 A L I F P F L N K S D S G T Y G C T A T S N M G S Y T A Y F T L N V N D P S P V P S S S S Y H A I I G G I V A F I V F L L L I L L I F L G  
 H Y L I R H K G T Y L T H E A K G S D D A P D A D T A I I N A E G G Q S G G D D K K E Y F I

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9018\\_f09.zip](https://cdn.origene.com/chromatograms/mm9018_f09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_053199

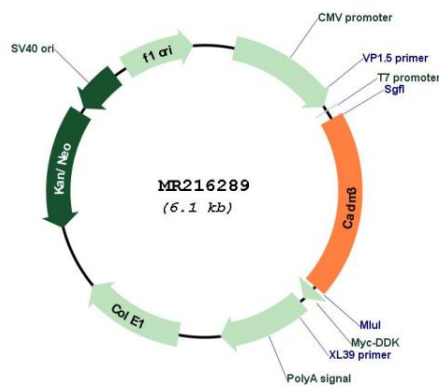
**ORF Size:** 1188 bp

**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.

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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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><a href="#">NM_053199.3</a></u> , <u><a href="#">NP_444429.1</a></u>
<b>RefSeq Size:</b>	4159 bp
<b>RefSeq ORF:</b>	1191 bp
<b>Locus ID:</b>	94332
<b>UniProt ID:</b>	<u><a href="#">Q99N28</a></u>
<b>Cytogenetics:</b>	1 H3
<b>MW:</b>	43.4 kDa
<b>Gene Summary:</b>	Involved in the cell-cell adhesion. Has both calcium-independent homophilic cell-cell adhesion activity and calcium-independent heterophilic cell-cell adhesion activity with IGSF4, NECTIN1 and NECTIN3. Interaction with EPB41L1 may regulate structure or function of cell-cell junctions.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR216289