

## Product datasheet for MR218922

### Cadm2 (NM\_178721) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cadm2 (NM_178721) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cadm2
Synonyms:	2900078E11Rik; 9330131D06; A830029E02Rik; Igdf4d; Igsf4d; NECL3; SynCAM 2; SynCAM2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR218922 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATTTGGAAACGCAGCGCGTCTCCGCTTCTACAGTGTCTGCGGGCTCCTGTTACAAGCGGCTGCTT  
CAAAAAGTAAAGTCAAAGGCAGCCAAGGGCAGTTCCACTAACTCAGAATGTCACGGTTGTTGAAGGTGG  
AACTGCAATTTGACCTGCAGAGTTGATCAAAATGATAACACCTCCCTCCAGTGGTCAAATCCAGCTCAA  
CAGACTCTGTACTTCGATGACAAGAAAGCTTTAAGGGACAATCGGATCGAGCTGGTTCGCGCTTCTTGCC  
ATGAGTTGAGCATCAGTGTGATGTCTCTCGGATGAAGGACAGTACACCTGCTCCTTATTAC  
AATGCCTGTCAAACTTCCAAGGCCTATCTCACTGTCTGGGTGTTCCGGAGAAGCCTCAGATTAGTGGA  
TTTTCGTCACCCGTCATGGAGGGAGACCTGATGCAGCTGACTTGTAAAGACGTCCGGCAGTAAGCCTGCGG  
CTGATATAAGATGGTTCAAAAATGACAAAGAAATCAAAGATGTGAAGTACTTGAAAGAGGAGGATGCTAA  
CCGAAAGACCTTACCCTTAGCAGCAGCTGGATTTCCGAGTGGACCGTAGCGATGATGGAGTGGCGGTC  
ATCTGCAGAGTAGACCATGAGTCCCTCAATGCCACCCCTCAGGTAGCCATGCAGGTGCTAGAAAATCACT  
ATACACCATCAGTTAAGATTATACCATCGACTCCTTTCCACAAGAAGGGCAGGCTTTAACGTTGACCTG  
TGAATCTAAAGGAAAACCACTGCCAGAACCTGTTTTGTGGACGAAGGATGGTCCGAATTACCAGATCCT  
GATGTGAAGCCACTAACACCATTGGCCAAAGCAGTGCCGAGTATGCTCATTGTTACAGTCCCAATTC  
TCTGGCTGGCCAGAATGGCCCTGACCATGCTCTCATCGGAGGAATAGTGGCTGTTGTTGATTTGTAC  
CTGTGCTCCATATTCCTGCTTGGCCGATATCTGGCAAGACATAAAGGAACATATCTAACAAATGAAGCTA  
AAGGAGCCGAAGATGCACCAGATGCCGACACAGCCATTATCAATGCTGAAGGCAGCCAAGTCAATGCCGA  
AGAGAAAAAGAGTATTTTCATT

**ACGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR218922 protein sequence  
Red=Cloning site Green=Tags(s)

MIWKRSVAVLRFYSVCGLLLLQAAASKSKVKGSQGQFPLTQNVTVEGGTAILTCDVDQNDNTSLQWSNPAQ  
 QTLVFDDKKALRDNRIELVRASWHELISISVSDVLSDEGQYTCSLFTMPVKTSKAYLTVLGVPEKQISG  
 FSSPVMEGDLMQLTCKTSGSKPAADIRWFKNDKEIKDKVKLKEEDANRKTFTVSSTLDFRVDRSDDGVAV  
 ICRVDHESLNATPQVAMQVLEIHYPVSVKIIIPSTPFPPQEQALTLTCEKSGKPLPEPVLWTKDGAELPDP  
 DRMVVSGRELNILFLNKTNDNGTYRCEATNTIGQSSAEYVLIVHDPNSLAGQNGPDHALIGGIVAVVVVFT  
 LCSIFLLGRYLARHKGYLTNEAKGAEDAPDADTAIINAEGSQVNAEEKKEYFI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_178721

**ORF Size:** 1215 bp

**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.

**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\\_178721.1](#), [NM\\_178721.2](#), [NM\\_178721.3](#), [NM\\_178721.4](#), [NP\\_848836.2](#)

**RefSeq Size:** 9580 bp

**RefSeq ORF:** 1215 bp

**Locus ID:** 239857

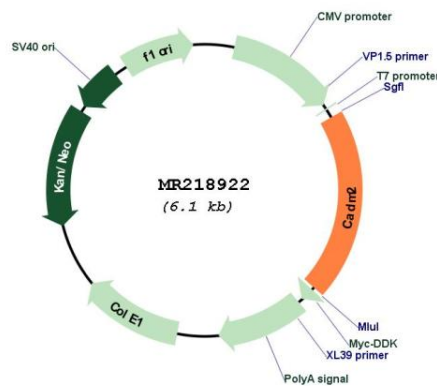
**UniProt ID:** [Q8BLQ9](#)

**Cytogenetics:** 16 C1.3- C2

**MW:** 44.4 kDa

**Gene Summary:** Adhesion molecule that engages in homo- and heterophilic interactions with the other nectin-like family members, leading to cell aggregation. Important for synapse organization, providing regulated trans-synaptic adhesion. Preferentially binds to oligodendrocytes (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR218922