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# Product datasheet for RC218787

## Cell adhesion molecule 2 (CADM2) (NM_153184) Human Tagged ORF Clone

## Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Cell adhesion molecule 2 (CADM2) (NM_153184) Human Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | Cell adhesion molecule 2 |
| **Synonyms:** | IGSF4D; Necl-3; NECL3; SynCAM 2; synCAM2 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

**ORF Nucleotide Sequence:**

```
>RC218787 representing NM_153184.
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTTTGTTCTCTTCTTGTGCAACCTTTCCTTGGTACCAGCGGCTGCTTCAAAGAATAAAGTTAAAGGC
AGCCAAGGGCAGTTTCCACTAACACAGAATGTAACCGTTGTTGAAGGTGGAACTGCAATTTTGACCTGC
AGGGTTGATCAAAATGATAACACCTCCCTCCAGTGGTCAAATCCAGCTCAACAGACTCTGTACTTTGAC
GACAAGAAAGCTTTAAGGGACAATAGGATCGAGCTGGTTCGCGCTTCCTGGCATGAATTGAGTATTAGT
GTCAGTGATGTGTCTCTCTCTGATGAAGGACAGTACACCTGTTCTTTATTTACAATGCCTGTCAAAACT
TCCAAGGCATATCTCACCGTTCTGGGTGTTCCTGAAAAGCCTCAGATTAGTGGATTCTCATCACCAGTT
ATGGAGGGTGACTTGATGCAGCTGACTTGCAAAACATCTGGTAGTAAACCTGCAGCTGATATAAGATGG
TTCAAAAATGACAAAGAGATTAAAGATGTAAAATATTTAAAAGAAGAGGATGCAAATCGCAAGACATTC
ACTGTCAGCAGCACACTGGACTTCCGAGTGGACCGGAGTGATGATGGAGTGGCGGTCATCTGCAGAGTA
GATCACGAATCCCTCAATGCCACCCCTCAGGTAGCCATGCAGGTGCTAGAAATACACTATACACCATCA
GTTAAGATTATACCATCGACTCCTTTTCCACAAGAAGGACAGCCTTTAATTTTGACTTGTGAATCCAAA
GGAAAACCACTGCCAGAACCTGTTTTGTGGACAAAGGATGGCGGAGAATTACCAGATCCTGACCGAATG
GTTGTGAGTGGTAGGGAGCTAAACATTCTTTTCCTGAACAAAACGGATAATGGTACATATCGATGTGAA
GCCACAAACACCATTGGCCAAAGCAGTGCGGAATATGTTCTCATTGTGCATGATGTTCCCAACACTTTG
CTTCCCACTACTATCATCCCCTCCCTTACCACTGCAACAGTCACAACCACTGTAGCCATAACAACCAGC
CCAACCACATCTGCAACAACCAGCAGCATCAGAGATCCTAATGCTTTGGCTGGCCAGAATGGCCCTGAC
CATGCTCTCATAGGAGGAATAGTGGCTGTAGTTGTATTTGTCACGCTGTGTTCTATCTTTCTGCTTGGT
CGATATCTGGCAAGGCATAAAGGAACGTATTTAACAAATGAAGCTAAAGGAGCTGAAGATGCACCAGAT
GCTGATACAGCCATTATCAATGCTGAAGGCAGCCAAGTCAATGCTGAAGAGAAAAAAGAGTATTTCATT
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

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**Protein Sequence:**

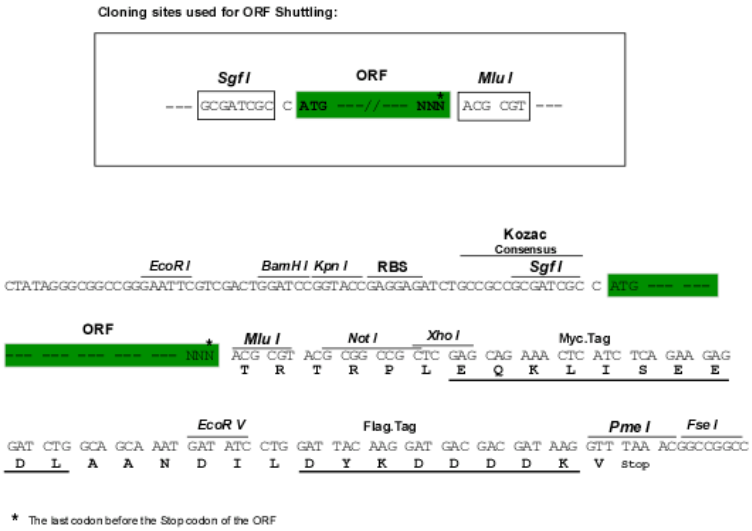
```
>Peptide sequence encoded by RC218787
Blue=ORF Red=Cloning site Green=Tag(s)

MFVLFLCNLSLVPAAASKNKVKGSQGQFPLTQNVTVVEGGTAILTCRVDQNDNTSLQWSNPAQQTLYFD
DKKALRDNRIELVRASWHELSISVSDVSLSDEGQYTCSLFTMPVKTSKAYLTVLGVPEKPQISGFSSPV
MEGDLMQLTCKTSGSKPAADIRWFKNDKEIKDVKYLKEEDANRKTFTVSSTLDFRVDRSDDGVAVICRV
DHESLNATPQVAMQVLEIHYTPSVKIIPSTPFPQEGQPLILTCESKGKPLPEPVLWTKDGGELPDPDRM
VVSGRELNILFLNKTDNGTYRCEATNTIGQSSAEYVLIVHDVPNTLLPTTIIPSLTTATVTTTVAITTS
PTTSATTSSIRDPNALAGQNGPDHALIGGIVAVVVFVTLCSIFLLGRYLARHKGTYLTNEAKGAEDAPD
ADTAIINAEGSQVNAEEKKEYFI
TRTRPLEQKLISEEDLAANDILDYKDDDDKV
```

**Chromatograms:** https://cdn.origene.com/chromatograms/mk8012_f09.zip

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** NM_153184

**ORF Size:** 1311 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).

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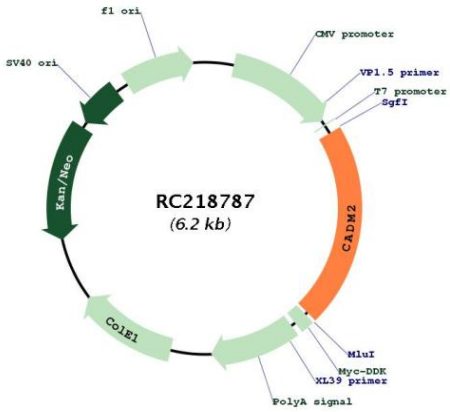
**Reconstitution Method:**

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_153184.4 |
| **RefSeq Size:** | 3347 bp |
| **RefSeq ORF:** | 1314 bp |
| **Locus ID:** | 253559 |
| **UniProt ID:** | Q8N3J6 |
| **Cytogenetics:** | 3p12.1 |
| **Domains:** | ig, IGc2, IG |
| **Protein Families:** | Druggable Genome, Transmembrane |
| **MW:** | 47.6 kDa |
| **Gene Summary:** | This gene encodes a member of the synaptic cell adhesion molecule 1 (SynCAM) family which belongs to the immunoglobulin (Ig) superfamily. The encoded protein has three Ig-like domains and a cytosolic protein 4.1 binding site near the C-terminus. Proteins belonging to the protein 4.1 family crosslink spectrin and interact with other cytoskeletal proteins. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2012] |

## Product images:




Circular map for RC218787

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