

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)



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ORF Nucleotide
Sequence:

>RC218787 representing NM_153184
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTTGTCTCTCTTGTGCAACCTTTCCTTGGTACCAGCGCCGCTTCAAAGAATAAAGTTAAAGGCA
GCCAAGGGCAGTTTCCACTAACACAGAATGTAACCGTTGTTGAAGGTGGAAGTCAATTTTGACCTGCAG
GGTTGATCAAAATGATAACACCTCCCTCCAGTGGTCAAATCCAGCTCAACAGACTCTGTACTTTGACGCAG
AAGAAAGCTTTAAGGGACAATAGGATCGAGCTGGTTCGCGCTTCTGGCATGAATTGAGTATTAGTGTCAG
GTGATGTGTCTCTCTGATGAAGGACAGTACACCTGTTCTTTATTTACAATGCCTGTCAAAACTTCCAA
GGCATATCTCACCGTTCGGGTGTTCTGAAAAGCCTCAGATTAGTGATTCTCATCACCAGTTATGGAG
GGTGACTTGATGCAGCTGACTTGCAAAACATCTGGTAGTAAACCTGCAGCTGATATAAGATGGTTCAAAA
ATGACAAAAGAGATTAAGATGTAATAATTTAAAAGAAGAGGATGCAAAATCGCAAGACATTCAGTGTGAG
CAGCACACTGGACTTCCGAGTGGACCGGAGTGATGATGGAGTGGCGGTCACTGCAGAGTAGATCAGCAA
TCCTCAATGCCACCCCTCAGGTAGCCATGCAGGTGCTAGAAAATACACTATACACCATCAGTTAAGATTA
TACCATCGACTCCTTTCCACAAGAAGGACAGCCTTTAATTTTGACTTGTGAATCCAAAGGAAAACCACT
GCCAGAACCTGTTTTGTGGACAAAGGATGGCGGAGAATTACCAGATCCTGACCGAATGGTTGTGAGTGGT
AGGGAGCTAAACATTCTTTCTGAACAAAACGGATAATGGTACATATCGATGTGAAGCCACAAACACCA
TTGGCCAAAGCAGTGGGAATATGTTCTCATTGTGCATGATGTTCCCAACACTTTGCTTCCCCTACTAT
CATCCCCTCCCTTACCACTGCAACAGTCACAACCACTGTAGCCATAACAACCAGCCCAACCACATCTGCA
ACAACCAGCAGCATCAGAGATCCTAATGCTTTGGCTGGCCAGAATGGCCCTGACCATGCTCTCATAGGAG
GAATAGTGGCTGTAGTTGTATTTGTACGCTGTGTTCTATCTTTCTGCTTGGTCGATATCTGGCAAGGCA
TAAAGGAACGTATTTAACAATGAAGCTAAAGGAGCTGAAGATGCACCAGATGCTGATACAGCCATTATC
AATGCTGAAGGCAGCAAGTCAATGCTGAAGAGAAAAAGAGATTTCATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC218787 representing NM_153184
Red=Cloning site Green=Tags(s)

MFVLFCLNLSLVPAAASKNKVKGSQGQFPLTQNVTVVEGGTAILTCRVDQNDNTSLQWSNPAQQTLYFDD
KKALRDNRIELVRASWHELISVSDVSLSDEGQYTCSLFTMPVKTSKAYLTVLGVPEKPKQISGFSSPVME
GDLMLQTCKTSGSKPAADIRWFKNDKEIKDVKYLKEEDANRKTFTVSSTLDFRVDRSDDGVAVICRVDHE
SLNATPQVAMQVLEIHYTPSVKIIPSTPFPEQEQPLILTCEKSGKPLPEPVLWTKDGGELPDPDRMVVSG
RELNILFLNKTDNGTYRCEANTIGQSSAEYVLIVHDPNTLLPTTIIPSLTTATVTTTVAITTSPTTSA
TTSSIRDPNALAGQNGPDHALIGGIVAVVVVFTLCSIFLLGRYLARHKGYLTNEAKGAEDAPDADTAII
NAEGSQVNAEEKKEYFI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

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

Restriction Sites:

Sgfl-Mlul

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).

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_153184.2](#), [NP_694854.2](#)

RefSeq Size: 3347 bp

RefSeq ORF: 1314 bp

Locus ID: 253559

UniProt ID: [Q8N3J6](#)

Cytogenetics: 3p12.1

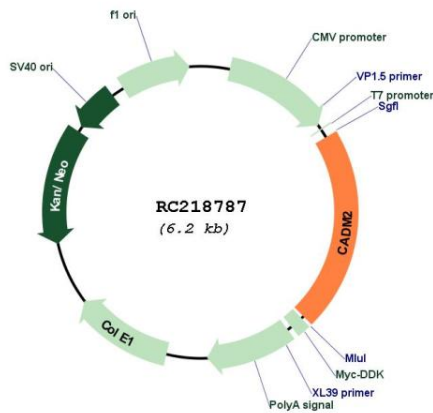
Domains: ig, IGc2, IG

Protein Families: Druggable Genome, Transmembrane

MW: 47.4 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