

Product datasheet for RC233657

Cell adhesion molecule 2 (CADM2) (NM_001256505) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cell adhesion molecule 2 (CADM2) (NM_001256505) 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:	>RC233657 representing NM_001256505 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTGTCAAACCTCCAAGGCATATCTACCGTTCTGGGTGTTCTGAAAAGCCTCAGATTAGTGGAT
TCTCATCACCAGTTATGGAGGGTACTTGATGCAGCTGACTTGCAAAACATCTGGTAGTAAACCTGCAGC
TGATATAAGATGGTTCAAAAATGACAAAGAGATTAAGATGTAAAATATTTAAAAGAAGAGGATGCAAAT
CGCAAGACATTCCTGTCAGCAGCACACTGGACTCCGAGTGGACCGGAGTGATGATGGAGTGGCGGTCA
TCTGCAGAGTAGATCACGAATCCCTCAATGCCACCCCTCAGGTAGCCATGCAGGTGCTAGAATACTACTA
TACACCATCAGTTAAGATTATACCATCGACTCCTTTTCCACAAGAAGGACAGCCTTAATTTTGACTTGT
GAATCCAAAGGAAAACCACTGCCAGAACCTGTTTTGTGGACAAAGGATGGCGGAGAATTACCAGATCCTG
ACCGAATGGTGTGAGTGGTAGGGAGCTAAACATCTTTTCTGAACAAAACGGATAATGGTACATATCG
ATGTGAAGCCACAAACACCATTTGGCCAAAGCAGTGCAGGAAATGTTCTCATTGTGCATGATCCTAATGCT
TTGGCTGGCCAGAATGGCCCTGACCATGCTCTCATAGGAGGAATAGTGGCTGTAGTTGTATTTGTCACGC
TGTGTTCTATCTTTCTGCTTGGTCGATATCTGGCAAGGCATAAAGGAACGATTTTAACAATGAAGCTAA
AGGAGCTGAAGATGCACCAGATGCTGATACAGCCATTATCAATGCTGAAGGCAGCCAAGTCAATGCTGAA
GAGAAAAAAGATATTTTCATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC233657 representing NM_001256505
 Red=Cloning site Green=Tags(s)

MPVKTSKAYLTVLGVPEKPQISGFSSPVMEGDLMQLTCKTSGSKPAADIRWFKNDKEIKDVKYLKEEDAN
 RKTFTVSTLDFRVDRSDDGVAVICRVDESLNATPQVAMQVLEIHYTPSVKIIIPSTFPQEQPLILTC
 ESKGKPLPEPVLWTKDGGELPDPDRMVVSGRELNILFLNKTDNGTYRCEATNTIGQSSAEYVLIVHPNA
 LAGQNGPDHALIGGIVAVVVVFTLCSIFLLGRYLARHKGYLTNEAKGAEDAPDADTAIINAEGSQVNAE
 EKKEYFI

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_001256505

ORF Size: 861 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_001256505.2](#)

RefSeq Size: 9007 bp

RefSeq ORF: 864 bp

Locus ID: 253559

UniProt ID: [Q8N3J6](#)

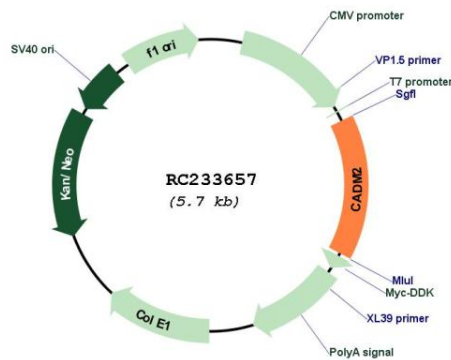
Cytogenetics: 3p12.1

Protein Families: Druggable Genome, Transmembrane

MW: 31.8 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 RC233657