

Product datasheet for **RG233779**

Cell adhesion molecule 2 (CADM2) (NM_001256503) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cell adhesion molecule 2 (CADM2) (NM_001256503) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cell adhesion molecule 2
Synonyms:	IGSF4D; Necl-3; NECL3; SynCAM 2; synCAM2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG233779 representing NM_001256503 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTGTCAAACTTCCAAGGCATATCTACCGTTCTGGGTGTTCTGAAAAGCCTCAGATTAGTGGAT
TCTCATCACCAGTTATGGAGGGTACTTGTATGCAGCTGACTTGCAAAACATCTGGTAGTAAACCTGCAGC
TGATATAAGATGGTTCAAAAATGACAAAGAGATTAAGATGTAAAATATTTAAAAGAAGAGGATGCAAA
CGCAAGACATTCCTGTCAGCAGCACACTGGACTTCGAGTGGACCGGAGTGATGATGGAGTGGCGGTCA
TCTGCAGAGTAGATCACGAATCCCTCAATGCCACCCCTCAGGTAGCCATGCAGGTGCTAGAAATACACTA
TACACCATCAGTTAAGATTATACCATCGACTCCTTTTCCACAAGAAGGACAGCCTTAATTTGACTTGT
GAATCCAAAGGAAAACCACTGCCAGAACCTGTTTTGTGGACAAAGGATGGCGGAGAATTACCAGATCCTG
ACCGAATGGTTGTGAGTGGTAGGGAGCTAAACATTCTTTTCTGAACAAAACGGATAATGGTACATATCG
ATGTGAAGCCACAACACCATTGGCCAAAGCAGTGCAGGAAATGTTCTCATTGTGCATGATGTTCCCAAC
ACTTTGCTTCCCCTACTATCATCCCCTCCCTTACCACTGCAACAGTCACAACCACTGTAGCCATAACAA
CCAGCCCAACCACATCTGCAACAACCAGCAGCATCAGAGATCCTAATGCTTTGGCTGGCCAGAATGGCCC
TGACCATGCTCTCATAGGAGGAATAGTGGCTGTAGTTGTATTTGTCACGCTGTGTTCTATCTTTCTGCTT
GGTCGATATCTGGCAAGGCATAAAGGAACGTATTTAACAATGAAGCTAAAGGAGCTGAAGATGCACCAG
ATGCTGATACGCCATTATCAATGCTGAAGGCAGCCAAGTCAATGCTGAAGAGAAAAAAGAGTATTTTCAT
T

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG233779 representing NM_001256503
 Red=Cloning site Green=Tags(s)

MPVKTSKAYLTVLGVPEKPQISGFSSPVMEGDLMQLTCKTSGSKPAADIRWFKNDKEIKDVKYLKEEDAN
 RKTFTVSSSTLDFRVDRSDDGVAVICRVDHESLNATPQVAMQVLEIHYTPSVKIIIPSTFPQEGQLILTC
 ESKGKPLPEPVLWTKDGGELPDPDRMVVSGRELNILFLNKTNDNGTYRCEATNTIGQSSAEYVLIVHDVFN
 TLLPTTIIIPSLTTATVTTTVAITTSPTTSATTSSIRDPNALAGQNGPDHALIGGIVAVVVVFTLCSIFLL
 GRYLARHKGTYLNEAKGAEDAPDADTAIINAEGSQVNAEEKKEYFI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001256503

ORF Size: 981 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_001256503.2](#)

RefSeq Size: 8977 bp

RefSeq ORF: 984 bp

Locus ID: 253559

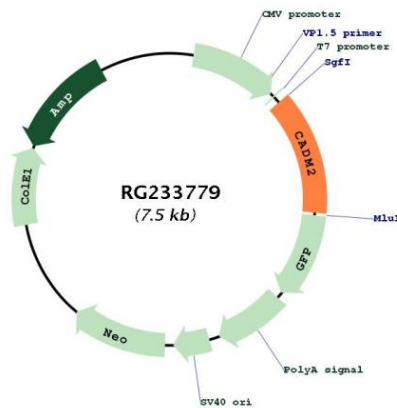
UniProt ID: [Q8N3J6](#)

Cytogenetics: 3p12.1

Protein Families: Druggable Genome, Transmembrane

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 RG233779