

## Product datasheet for **RG233778**

### Cell adhesion molecule 2 (CADM2) (NM\_001256502) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cell adhesion molecule 2 (CADM2) (NM_001256502) 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:	>RG233778 representing NM_001256502 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCTGTCAAACTTCCAAGGCATATCTACCGTTCTGGGTGTTCTGAAAAGCCTCAGATTAGTGGAT  
TCTCATCACCAGTTATGGAGGGTACTTGATGCAGCTGACTTGCAAAACATCTGGTAGTAAACCTGCAGC  
TGATATAAGATGGTTCAAAAATGACAAAGAGATTAAGATGTAAAATATTTAAAAGAAGAGGATGCAAA  
CGCAAGACATTCCTGTCAGCAGCACACTGGACTTCGAGTGGACCGGAGTGATGATGGAGTGGCGGTCA  
TCTGCAGAGTAGATCACGAATCCCTCAATGCCACCCCTCAGGTAGCCATGCAGGTGCTAGAAATACACTA  
TACACCATCAGTTAAGATTATACCATCGACTCCTTTTCCACAAGAAGGACAGCCTTAATTTGACTTGT  
GAATCCAAAGGAAAACCACTGCCAGAACCTGTTTTGTGGACAAAGGATGGCGGAGAATTACCAGATCCTG  
ACCGAATGGTTGTGAGTGGTAGGGAGCTAAACATTCTTTTCTGAACAAAACGGATAATGGTACATATCG  
ATGTGAAGCCACAACACCATTGGCCAAAGCAGTGCAGGAAATGTTCTCATTGTGCATGATGTTCCCAAC  
ACTTTGCTTCCCACTACTATCATCCCTCCCTTACCACTGCAACAGTCACAACCACTGTAGCCATAACAA  
CCAGCCCAACCACATCTGCAACAACCAGCAGCATCAGAGATCCTAATGCTTTGGCTGGCCAGAATGGCCC  
TGACCATGCTCTCATAGGAGGAATAGTGGCTGTAGTTGTATTTGTCACGCTGTGTTCTATCTTTCTGCTT  
GGTCGATATCTGGCAAGGCATAAAGGAACGTATTTAACAATGAAGCTAAAGGAGCTGAAGATGCACCGAG  
ATGCTGATACGCCATTATCAATGCTGAAGGCAGCCAAGTCAATGCTGAAGAGAAAAAAGAGTATTTTCAT  
T

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG233778 representing NM\_001256502  
 Red=Cloning site Green=Tags(s)

MPVKTSKAYLTVLGVPEKPQISGFSSPVMEGDLMQLTCKTSGSKPAADIRWFKNDKEIKDVKYLKEEDAN  
 RKTFTVSSSTLDFRVDRSDDGVAVICRVDHESLNATPQVAMQVLEIHYTPSVKIIIPSTFPQEGQLILTC  
 ESKGKPLPEPVLWTKDGGELPDPDRMVVSGRELNILFLNKT DNGTYRCEATNTIGQSSAEYVLIVHDVPN  
 TLLPTTIIIPSLTTATVTTTVAITTSPTTSATTSSIRDPNALAGQNGPDHALIGGIVAVVVVFTLCSIFLL  
 GRYLARHKGYLTNEAKGAEDAPDADTAIINAEGSQVNAEEKKEYFI

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001256502

**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\\_001256502.2](#)

**RefSeq Size:** 9127 bp

**RefSeq ORF:** 984 bp

**Locus ID:** 253559

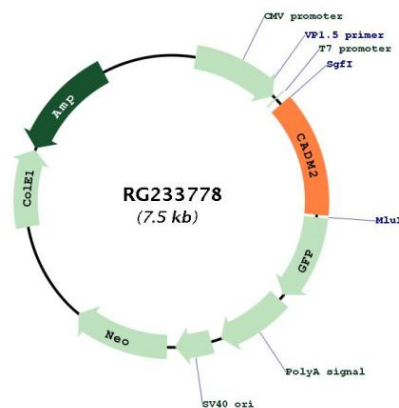
**UniProt ID:** [Q8N3J6](#)

**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 RG233778