

Product datasheet for **RG230010**

Cell adhesion molecule 2 (CADM2) (NM_001167675) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cell adhesion molecule 2 (CADM2) (NM_001167675) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CADM2
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:	>RG230010 representing NM_001167675 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGATTTGGAAACGCAGCGCGTCTCCGCTTCTACAGTGTCTGCGGGCTCCTGCTACAAGCGGCTGCTTCAAAGAATAAAGTTAAAGGCAGCCAAGGGCAGTTCCACTAACACAGAATGTAACCGTTGTTGAAGGTGGA
AACTGCAATTTGACCTGCAGGGTTGATCAAAATGATAACACCTCCCTCCAGTGGTCAAATCCAGCTCAA
CAGACTCTGTACTTTGACGACAAGAAAGCTTTAAGGGACAATAGGATCGAGCTGGTTCGCGCTTCTGCG
ATGAATTGAGTATTAGTGCAGTGATGTCTCTCTGATGAAGGACAGTACACCTGTTCTTTATTAC
AATGCCTGTCAAACTTCCAAGGCATATCTCACCGTTCGGGTGTTCTGAAAAGCCTCAGATTAGTGGA
TTCTCATCACCAGTTATGGAGGGTGACTTGATGCAGCTGACTTGCAAAACATCTGGTAGTAAACCTGCAG
CTGATATAAGATGGTTCAAAAATGACAAAGAGATTAAGATGTAAAAATTTAAAAGAAGAGGATGCAAA
TCGCAAGACATTCAGTGTGAGCAGCAGCACTGGACTTCCGAGTGGACCGGAGTGTGATGGAGTGGCGGTC
ATCTGCAGAGTAGATCACGAATCCCTCAATGCCACCCCTCAGGTAGCCATGCAGGTGCTAGAAAATACACT
ATACACCATCAGTTAAGATTATACCATCGACTCCTTTCCACAAGAAGGACAGCCTTTAATTTGACTTG
TGAATCCAAAGGAAAACCACTGCCAGAACCTGTTTTGTGGACAAGGATGGCGGAGAATTACCAGATCCT
GACCGAATGGTTGTGAGTGGTAGGGAGCTAAACATTCCTTTCTGAACAAAACGGATAATGGTACATATC
GATGTGAAGCCACAACACCATTGGCCAAAGCAGTGCAGGAAATATGTTCTATTGTGCATGATCCTAATGC
TTTGGCTGGCCAGAATGGCCCTGACCATGCTCTCATAGGAGGAATAGTGGCTGTAGTTGATTTGTACCG
CTGTGTTCTATCTTTCTGCTTGGTGCATATCTGGCAAGGCATAAAGGAACGTATTTAACAAATGAAGCTA
AAGGAGCTGAAGATGCACCAGATGCTGATACAGCCATTATCAATGCTGAAGGCAGCCAAGTCAATGCTGA
AGAGAAAAAGAGTATTTTCATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG230010 representing NM_001167675
 Red=Cloning site Green=Tags(s)

MIWKRSAVLRFYSVCGLLQLQAASKNKVKGSQGQFPLTQNVTVVEGGTALITCRVDQNDNTSLQWSNPAQ
 QTLYFDDKALRDNRIELVRASWHELISISVSDVSLSDGQYTCSLFTMPVKTSKAYLTVLGVPEKPIQSG
 FSSPVMEDLMQLTCKTSGSKPAADIRWFKNDKEIKDKVYLKEEDANRKTFTVSSTLDFRVDRSDDGVAV
 ICRVDHESLNATPQVAMQVLEIHYPSPVKIIPSTPFQEGQPLILTCESKGGKPLPEPVLWTKDGGELPDP
 DRMVVS GRELNILFLNKTNDNGTYRCEATNTIGQSSAEYVLI VHDPNALAGQNGPDHALIGGIVAVVVFVT
 LCSIFLLGRYLARHKGYLTNEAKGAEDAPDADTAIINAEGSQVNAEEKKEYFI

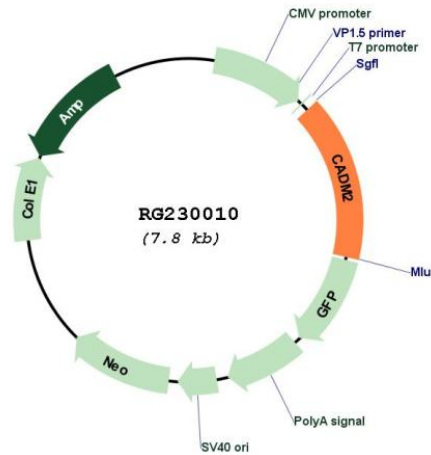
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001167675

ORF Size:	1212 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:	<ol style="list-style-type: none">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_001167675.2
RefSeq Size:	9487 bp
RefSeq ORF:	1215 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]