

Product datasheet for SC106022

Cell adhesion molecule 2 (CADM2) (AL834270) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cell adhesion molecule 2 (CADM2) (AL834270) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cell adhesion molecule 2
Synonyms:	IGSF4D; Necl-3; NECL3; SynCAM 2; synCAM2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for AL834270 edited
 GAATTCGGCACGAGGCTGCCCGCTGCCGCTGCCGCTGCCGCCACAGCCGCGCTGCAG
 CCGGAGCATCCGGGAGCCGCCACTGCCGCGCCGCTGCCGCTGCTACCGCCACTAGCGCT
 GCTTCCACTGCTTCTACCTCCCCTCCCAGGACCCCGAGACACCCCGGCGCGAGCGCGAG
 TGCTGCTTGCTTCTCCTCTCCCCAGCCCTTCCCCTCCGTGACCTACCCACTCCTT
 GCAGCCCTCGCCCGACCTTCTCCAACACCCCGGCATCCCTGCACCACCTGCTCGGGCAG
 CCCCAGCGGGCTCTGGGACTTGCTGTGCGCGCGAGAGGAAGGCAAGCTCCAAACCCCTG
 CCTGGAAGACGGGCTGTCGCGGCTGCACCACCAGCAGGAGGAGGAGAGAAGAACTATT
 TCGCGATACCCATTCTGCGGGTCTTGGCGCTGCCGCTTCTGCTGCCGCGATCCGAG
 TCCGCGGGTTCGAACACCGCAGCGGTGGGACGGTGGGTCGGCGGGCGCCGGGAGGAG
 ACACCAGCGGAGCCCTGCACTCTCGTGCCCGCTCACCAGCATCTACTTGCCCCCTCGTT
 CCTTCCCAGCCCTTAGAGAAGGGACCATGATTTGAAAACGCAGCGCCGTTCTCCGCTT
 CTACAGTGTCTGCGGGCTCTGTACAAGCGGCTGCTTCAAAGAATAAAGTTAAAGGCAG
 CCAAGGGCAGTTTCCACTAACACAGAATGTAACCGTTGTTGAAGGTGAACTGCAATTTT
 GACCTGCAGGGTTGATCAAAATGATAACACCTCCCTCCAGTGGTCAAATCCAGCTCAACA
 GACTCTGTACTTTGACGACAAGAAAGCTTTAAGGGACAATAGGATCGAGCTGGTTCGCGC
 TTCCTGGCATGAATTGAGTATTAGTGTGAGTGTGTCTCTCTGATGAAGGACAGTA
 CACCTGTTCTTTATTTACAATGCCTGTCAAACCTCCAAGGCATATCTCACCGTTCTGGG
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 TGACAAAGAGATTAAGATGTAAAATATTTAAAAGAAGAGGATGCAAATCGCAAGACATT
 CACTGTGACGACGACACTGGACTCCGAGTGGACCGGAGTGATGATGGAGTGGCGGTCAT
 CTGCAGAGTAGATCACGAATCCCTCAATGCCACCCCTCAGGTAGCCATGCAGGTGCTAGA
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 AAAGGATGGCGGAGAATTACCAGATCTGACCGAATGGTTGTGAGTGGTAGGGAGCTAAA
 CATTCTTTTCTGAACAAAACGGATAATGTTACATATCGATGTGAAGCCACAACACCAT



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TGGCCAAAGCAGTGCGGAATATGTTCTCATTGTGCATGATCCTAATGCTTTGGCTGGCCA
 GAATGGCCCTGACCATGCTCTCATAGGAGGAATAGTGGCTGTAGTTGATTTTGTACAGCT
 GTGTTCTATCTTTCTGCTTGGTCGATATCTGGCAAGGCATAAAGGAACGTATTTAACAAA
 TGAAGCTAAAGGAGCTGAAGATGCACCAGATGCTGATACAGCCATTATCAATGCTGAAGG
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 GTGTTAACCATTAAGAAATGCTGTATTCTTAAATATGAAACAGTTAATCTAAAGTCTTA
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 GAAGAAAAACAATATGACAGTATGGTAGCTATACTTGTGATGTCTGACGCATGATGGCCT
 ATGGTTTTAAAAATAGTATTGTGGAATATATTTTTGGGGAATAAGAATGGTTGAGTGCAA
 CATCATGTATTAATATCAAAATGAAAGACAAGGGTGTGTATCTTTGATTATTTATCAAAA
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 CAGAATATACAGAACATAAATAATATGATGTGGTTGAGTGTTAACATAATAAATCATATA
 CAGTATGACATTTAAGGAAAAAAAAAAAAAAAAAAAAAAAAAACTCGAC

5' Read Nucleotide Sequence:

>OriGene 5' read for AL834270 unedited
 TGCCGCCGCCGCTGCCGCTGCTACCGCCACTAGCGCTGCTTCCACTGCTTCTACCTCCCC
 TCCCAGGACCCCGAGACACCCCGGGCGCGAGCGGCAGTGTGCTTGTCTCCTCCTCT
 CCCCCAGCCCTTCCCCTCCGTGACCTACCCACTCCTTGCAGCCCTCGCCCGCACCTTCTC
 CAACACCCCGGCATCCCTGCACCACCTGCTCGGGCAGCCCGGGGCTCGGGACTTGC
 TGTGCGCGCCGAGAGGAAGGCAAGCTCCAAACCCTGCCTGGAAGACGGGCTGTCGCGGC
 TGCACCACAGCAGGAGGAGGAGGAGAAGAACTATTTCCGCGATACCCCATTTCTGCGGGT
 GCTTTGCCGCTGCCGCTTCTGCTGCCGCGGATCCGAGTCCGCGGGTTCGAACACCCGCANC
 GGTGGGGACGGTGGGTCCGGCGGGCGCCGGGAGGAGGACACCAGCGGAGCCCTGCACTCT
 CGTGCCCCGCTCACCAGCATCTACTTGCCCCCTCGTTCCTTCCCCAGCCCTTTAGAGAAG
 GGACCATGATTTGGAAACGCANCGCCGTTCTCCGCTTCTACAGTGTCTGCGGGCTCCTGC
 TACAAGCGGTGCTTCAAGAATAAAGNTAAAGGCAGNCAAGGGCAGTTTCCACTACACAG
 ATGGAACCCGTGTTGAAGTGGGACTGCATTTTGACCTGCAGGGGTGATCAAAATGATA
 CCACTNCCTTCCGTGGTCAAATCCGCTAACAGACTCTGTACTTTGACACAAAAAAGTTTA
 GGACAAANGAAAAACCCGGTCCCCTTCTGGCGGAATGGAATTAAGGCCAGGGGGGGTT

3' Read Nucleotide Sequence:

>OriGene 3' read for AL834270 unedited
 AACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTCTTAAAAATGT
 CATACTGTATATGATTTATTATGTTAACAACCTCAACCACATCATATTTTATGTTCTGTA
 TATTCTGAAAAAGTGTCTTGGACTGACATCGTCCTTTTTCTTTTGAAGAAATCAACAA
 GATAAATGCTTCAACAATCAAAAAAAGTTTAAATTTCTAACATTTTCTTAAAAAGATT
 TATACTTTTTTGATAAATAATCAAGATACAGCACCCCTTGTCTTTCATTTGATATTAATA
 CATGATGTTGCACTCAACCATTCTTATTTCCCAAAAATATATTCCACAATACTATTTTTA
 AAACCATAGGCCATCATGCGTCAGACATCACAAGTATAGCTACCATACTGTCATATTTGT
 TTTCTTCTAAAGGTGCAATGCTTGTAAATGGGATTTTTTAAATCTAACTGGAGTTTTA
 TTCTTTAGCATATAATAAATTTAATGAGAACTAATCTAACAATATTTTATTTTACTAGAA
 GAAATAAAGACTTTAGATTAAGTGTTCATATTTAAGAATACAGCATTTCTTAATGGT
 TAAACACGCCAAAAATTTTAAATTAATCCAGAGAAAGAGACTTTCACTTTGGAGTTAAAAAG
 CATGGCAGAAATTTCTCTATCACTCACTGTTTCATCAGTTTGTACCTCACAAAATGCATAG
 ACAGGAATTTAATAAAGAATTAGTTCATTTATACAGAAAACATATCTTAAACACTTCT
 TTTTGGCAAACCAACATAGGTAAGCAGCTCTGAACTGCAAAATGAAAATTGTNAATTTTT
 AGCAACTAAAATTTTTAGGTTATATTACACTGTGGTTGTAATTTAAACCCTGAGCT
 GTGCCCTGGGTGAGCTTAAATTTCTTATACATTGTGCTTCCTTGGTAACAATAAA
 ATTAACAGGACTTAAAAATTTGTGTTGACCGGCTGGGCATACGACAAAAACCNAACTGTA
 TCTCTTAAATATGGTG

Restriction Sites:

NotI-NotI

ACCN:

AL834270

Insert Size:

4500 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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: [AL834270.1](#), [CAD38945.1](#)

RefSeq Size: 3315 bp

RefSeq ORF: 3315 bp

Locus ID: 253559

Cytogenetics: 3p12.1

Domains: ig, IGc2, IG

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]