

## Specifications:

|                |                  |
|----------------|------------------|
| Gene:          | hCADM2           |
| Accession:     | NP_001161146     |
| Insert size:   | 1321bp           |
| Concentration: | 10µg at 0.2µg/µL |

## Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

## Preparation and Storage

|             |                                                                     |
|-------------|---------------------------------------------------------------------|
| Formulation | cDNA is provided in 10 mM Tris-Cl, pH 8.5                           |
| Shipping    | Ships at ambient temperature                                        |
| Stability   | 1 year from date of receipt when stored at -20°C to -80°C           |
| Storage     | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. |

## hIGSF4D/CADM2 cDNA Plasmid

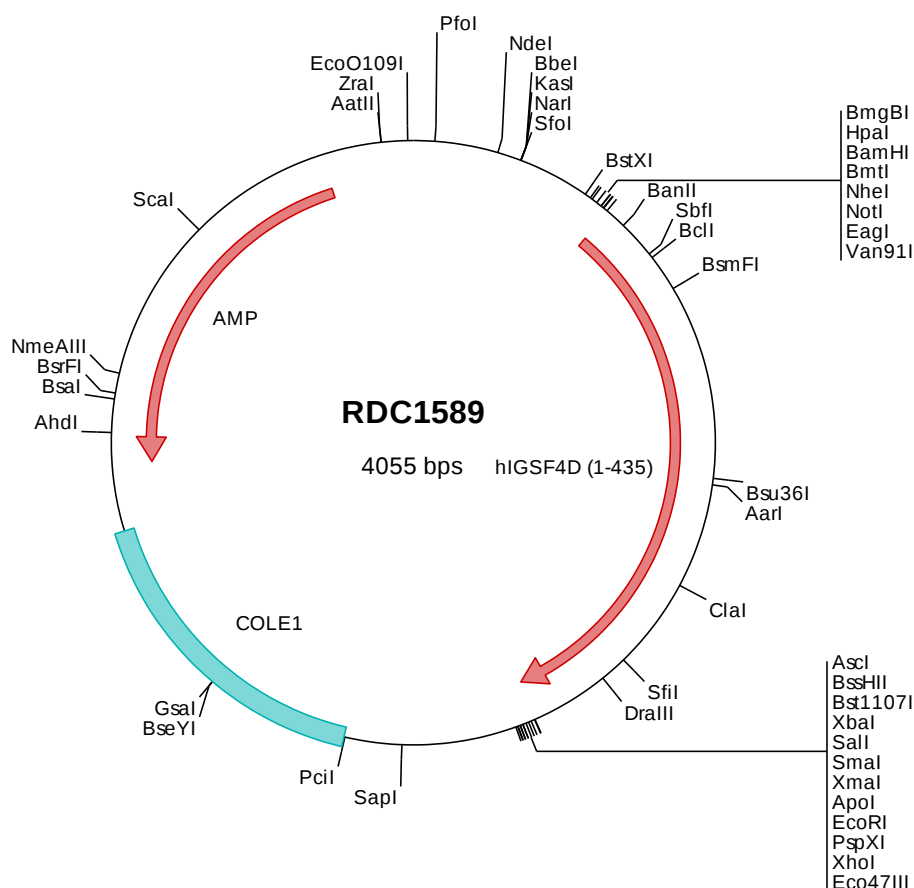
### CADM2 cell adhesion molecule 2

[ *Homo sapiens* (human) ]

**Also known as:** NECL3; IGSF4D;  
Necl-3; synCAM2; SynCAM 2

### Summary:

IGSF4D or synaptic cell adhesion molecule 2 (SynCAM2) is a member of the nectin family which belongs to the immunoglobulin (Ig) superfamily. It is a transmembrane glycoprotein expressed mainly in epithelial cells and contains one V-type Ig-like and two C2-type Ig-like domains in the extracellular region. These domains are characteristically responsible for Ca<sup>++</sup>-independent homophilic and heterophilic interactions in the brain, lung, kidney, bladder, prostate and testis. Alternatively spliced transcripts encoding different proteins have been described.



## > RDC1589 Plasmid DNA Sequence

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1   tcgcgcgctt cggatgatgac ggtgaaaaac tctgacacat gcagctcccc gagacgggtc cagcttgtct gtaagcggat gccgggagca gacaagcccc
101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccgatc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggtccgata tcgctagcgc ggccgcacac atgatttggg aacgcagcgc cgtttccgc ttctacagt tctgcgggct
501  cctgtctaaa ggcagccaag gcagctttcc actaacacag aatgtaaccg ttgttgaaag tggaactgca attttgacct gcagggttga tcaaaatgat
601  aacacctccc tccagtggtc aaatccagct caacagactc tgtactttga cgacaagaaa gctttaaggg acaataggat cgagctgggt cgcgcttcc
701  ggcatgaatt gagtattagt gtcagtgatg tgtctctctc tgatgaagga cagtacacct gttctttatt tacaatgctt gtcaaaactt ccaaggcata
801  tctcaccgtt ctgggtgttc ctgaaaagcc tcagattagt ggattctcat caccagttat ggagggtgac ttgatgcagc tgacttgcaa aacatctggt
901  agtaaacctg cagctgatat aagatgggtt aaaaatgaca aagagattaa agatgtaaaa tatttaaaag aagaggatgc aaatcgcaag acattcactg
1001 tcagcagcac actggacttc cgagtgagac ggagtgatga tggagtggcg gtcatctgca cagtagatca cgaatccctc aatgccaccc ctcaggtagc
1101 catgcaggtg ctagaaatcc actatacacc atcagttaaag attataccat cgactccttt tccacaagaa ggacagcctt taattttgac ttgtgaatcc
1201 aaaggaaaac cactgccaga acctgttttg tggacaaagg atggcggaga attaccagat cctgaccgaa tgggtgtgag ttgttagggg ctaaacatcc
1301 ttttccgtga caaacgggat aatggtacat atcgatttga agccacaacc accattggcc aaagcagtg cgaatattgtt ctcatgttgc atgatcttcc
1401 caacactttg cttccacta ctatcatccc ctcccctacc actgcaacag tcacaaccac tgtagccata acaaccagcc caaccacatc tgcaacaaac
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1801 tccagcgcct gctctagct tggcgtaatc atggtcatag ctgtttctct tgtgaaattg ttatccgctc acaattccac acaacatagc agccggaagc
1901 ataaagtgtg aagcctgggg tgccaatga tggagctaac tcacattaat tgcgttgccg tcactgcctc ctttccagtc gggaaacctg tcgtgccagc
2001 tgcattaatg aatcgcccaa ccgcgcggga gaggcgggtt gcgtattggg cgtctctccg cttcctcgct cactgactcg ctgcgctcgg tctgtcggct
2101 gccgcgagcg gtagcagctc actcaaaagg ggaataacgg ttatccacag aatcagggga taacgcagga aagaacatgt gagcaaaaag cagcaaaaag
2201 gccaggaaac gtaaaaaagg ccgcttgctg ataggtctcg ccccccctgac gagcatcaca aaaatcgacg ctcaagtcag aggtggcgaa
2301 acccgacagg actataaaga taaccaggctt ttcccctctg aagctccctc gtgcgctctc ctgttccgac cctgcccgtt accggatacc tgtccgctt
2401 tctccctctg ggaagcgtgg cgtttctcca atgctcacgc tgtagtgatc tcagttcggg taagtgctgt cgctccaaag cgtcagtggt gcacgaaccc
2501 cccgttcagc ccagccagctg cgccttatcc ggttaactac gtcttgagtc caaccgggta agacacgact tatcgccact ggcagcagcc actggtaaca
2601 ggattagcag agcgaggtat gtaggcgggt ctacagagtt cttgaagtgg tggcctaact acggctacac tagaaggaca gattttggtg tctgcgctct
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2901 gattatcaaa aaggatcttc acctagatcc ttttaaatg aaaaatgaag tttaaatcaa tctaaagtat atagtgtatg acttggtctg acagttacca
3001 atgcttaatc agtgaggcac ctatctcagc gatctgtcta tttcgtttat ccatagttgc ctgactcccc gtcgtgtaga taactacgat acgggagggc
3101 ttaccatctg gccccagtcg tgcaatgata ccgcgagacc cagctccacc ggctccagat ttatcagcaa taaaccagcc agccggaagg gccgagcgca
3201 gaagtggctc tgcaacttta tccgcctcca tccagctcat taattgttgc cgggaagcta gagtaagtag ttcgccagtt aatagtttgc gcaacgttgt
3301 tgccattgct acaggcatcg tgggtgcacg ctogtctgtt ggtatggctt cactcagctc cgtttcccaa cgatcaaggc gagttaacatg atccccatg
3401 ttgtgcaaaa aagcggttag ctccctcggg cctccgatcg ttgtcagaag taagtgggcc gcagtgttat cactcatggt tatggcagca ctgcataatt
3501 ctcttactgt catgccatcc gtaagatgct tttctgtgac tgggtgagta tcaaccaagt cattctgaga atagtgtatg cggcgaccga gttgctcttg
3601 cccgcgtcca atacgggata ataccgcgcc acatagcaga actttaaaag tgcctcatc attgaaaacgt tcttcggggc gaaaactctc aaggatotta
3701 ccgctgttga gatccagttc gatgtaaccc actcgtgcac ccaactgatc ttcagcatct tttactttca ccagcgtttc tgggtgagca aaaacaggaa
3801 ggcataatgc cgcaaaaaag ggaataaggg cgacacggaa atgttgaata ctcatactct tcttttttca atattattga agcatttatc agggttattg
3901 tctcatgagc ggatacatat ttgaattgat ttgaaaaaat aaacaaatag ggttccgcg cacatttccc cgaaaagtgc cacctgacgt ctaagaaacc
4001 attattatca tgacattaac ctataaaaat aggcgtatca cgaggccctt tcgtc

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## > RDC1589 Translated Insert Sequence

```

1   miwkrsavlr fysvcglllq gsqqgfplqt nvtvveggta iltcrvdqnd ntslqwsnpa qqtlyfddkk alrdrnielv raswhelsis vsdvslsdeg
101  qytcsifltp vktksayltv lgvpekpqis gfsspvmeqd lmqtlctkts skpaadriwf kndkeikdvk ylkeedanrk tftvsstldf rvdrsdgdga
201  vicrvdhesl natpqvamqv leihtpsvk iipstpfpe gqpliltces kgkplpepvl wtkdggelpd pdrmvvsgrc lniflnktd ngtyrceatn
301  tigqssaeyv livhdvpntl lpttiipslt tatvtttva ttpsttsatt ssirdpnala gqngpdhali ggivavvvfv tlcsifllgr ylarhkgtyl
401  tneakgaeda pdadtaaiina egsvnaeek keyfi

```