

Product datasheet for **RC211785**

Cadherin 9 (CDH9) (NM_016279) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cadherin 9 (CDH9) (NM_016279) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cadherin 9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RC211785 representing NM_016279
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGGACTTACCATTATATACCATTATTCATCTGGACCTATATGTTCCATACAGTTGACACCATCCTAT
 TACAAGAAAAACCTAACAGTTATTTATCAAGCAAAAAGATAGCGGGTCTGACAAAAGATGACGGTAAAAT
 GCTACGTCGCACCAAGCGTGGCTGGATGTGGAATCAGTTCTTCTTATTGGAAGAGTACACAGGTAAGTAC
 ACACAATATGTAGGCAAGCTTCACACTGACCAAGATAAAGGAGATGAAAATTTAAAATACATACTAACAG
 GAGATGGGGCTGGCAGTCTATTTGTTATAGATGAAAATACAGGAGACATTCATGCTGCAAAGAACTAGA
 CAGAGAAGAAAAATCTCTGTACATTCTTCGTGCCAAGGCTATAGACAGAAAACTGGGCGGCAGGTGGAA
 CCGGAATCGGAATTTATCATTAAAATACATGATATCAATGACAATGAGCCAAAATTTACAAAAGACTTAT
 AACTGCCAGTGTCTGAAATGTCTGGAGTCCGTACATCTGTTATAACAAGTAACTGCAACAGATGCAGA
 TGACGCCAACTATGAAAATAGTCCAAAAGTGGTCTATAGCATATTGCAAGGACAGCCATATTTTTAGT
 GACCCAGAATCAGGCATAATAAAAAGTGCATTACAGACATGAGCAGAGAAAATAGAGAGAGTACCCAGG
 TTGTTATACAGGCCAAAAGACATGGTGGCCAGATGGGAGGCCCTTCTGGAACCACCACAGTGAACATCAC
 GCTGACAGATGTCAACAACAACCCTCCTCGATTTCCCGAGAGTACGTATCAATTTAATTCTCCTGAGTCT
 GTACCTCTTGGAACTCATCTTGGAAAGGATAAAAAGCCAATGACCCTGACGTGGGGGAAAAATGCAGAAATGG
 AGTATAGCATTGCTGAAGGAGATGGTGCAGACATGTTTCGATGTCATCACTGACAAGGATACACAGGAAGG
 GATTATAACTGTCAAACAGAATTTAGATTTTAAAAATCAAATGCTCTATACTTTAAGAGTGGATGCAAGT
 AACACTCACCTGATCCACGATTTTACACCTGGGACCTTTCAAAGATACAGCTGTGGTCAAATATCTG
 TGAAGATATAGATGAGCCTCCTGTGTTCACTAAAGTCTTACTTGATAGAAGTAAAGTGAAGATGTA
 GGAGGGCAGTATCATTGGACAGGTTACAGCATAACGATCCAGATGCCAGGAACAATTTAATAAAGTACTCT
 GTTGATCGGCATACTGATATGGACCGTATTTTTGGTATTCACCTCAGAAAATGGTCTATTTTCACTTTGA
 AAGCCCTTGACCGGGAATCATCTCCTTGGCATAACATCACTGTTACAGCCACAGAAAATAAATAACCCAAA
 ACAAAAGTAGCCACATCCCTGTCTTCATCAGAATTCTAGATATAAATGACCATGCTCCGGAATTTGCCATG
 TATTATGAAACATTTGTTTGTGAAAATGCAAAACCTGGGCAGTTGATTACAGACTGTCAGTGTGATGGATA
 AGGATGACCTCCCGAGGTACAAAATCTTTTTGAACCAAGTCCAGAAATTTACTCTCAATCCGAATTT
 CACCATTGTAGATAATAAAGATAATACAGCAGGAATCATGACTCGGAAAGATGGTACAGTCCGAAACAAA
 ATGAGCACCTACTTATTGCCGATTTTAATCTTTGACAACGATTATCCAATTCAAAGCAGCACTGGTACAC
 TCACTATCCGTGTGTGCTGCGATAATCAAGGAAACATGCAATCCTGCACCGCAGAAGCCCTGATCCT
 TTCAGCCGGCCTGAGCACGGGAGCTCTCGTTGCGATTCTACTCTGTGTCCTCATACTGCTTATTTTAGTC
 GTGTTGTTTGTGCAATTGAAGAGGCAAAGAAAAAGGAACCTCTGATAATTTCAAAGACGATGTCGGGG
 ACAACATTGTGACCTACAACGATGAAGGCGGCGGGGAAGAAGTACCCAAGCTTTTACATTGGCACATT
 AAGGAATCCAGAGGCAAGAGAAGACAGTAACTTAGACGGGATGTAATGCCTGAAACTATTTTTCAGATA
 AGGAGGACTGTGCTCTGTGGGAAAATATTGATGTACAAGATTTTATCCATCGAAGATTAAGAAAAACG
 ACGCAGACCAAGTGCACCTCCATATGATTGCTGGCAACGATGCTATGAAGGGAATGATTCCATAGC
 AGATTCGCTCAGTCTTTTGAATCTCTCACAGCTGATTGTAACCAAGATTATGATTACCTCAGTACTGG
 GGCCTCGTTTCAAAAACCTTGCCGATATGATGGGGGTGATGATAGTGACCGAGAC

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC211785 representing NM_016279
Red=Cloning site Green=Tags(s)

MRTYHYIPLFIWTFMHTVDTILLQEKPNSYLSKKIAGLTKDDGKMLRRTKRGWMWNQFFLLEEYTGTD
TQYVYVGLHTDQDKDGNLKYILTGDGAGSLFVIDENTGDIHAAKKLDREKSLYLRAKAIDRKTGRQVE
PESEFIIKIHNDNEPKFTKDLTYASVPEMSGVGTSVIQVTATDADDANYGNSAKVVYSILQGQPYFSV
DPESGIIKTALPDMSRENREQYQVVIQAKDMGGQMGGLSGTTTNNITLTDVNNNPPRFPQSTYQFNPSPE
VPLGTHLGRIKANDPDVGENAEMEYSIAEGDGADMFDVITDKDTQEGIITVKQNLDFENQMLYTLRVDAS
NTHPDPFLHLGPFKDTAVVKISVEDIDEPPVFTKVSYLEVDEDEVKEGSIIGQVTAYDPDARNLIKYS
VDRHTDMDRIFGIHSENGSIFTLKALDRESSPWHNITVTATEINNPKQSSHIPVFIIRILDINDHAPEFAM
YYETFVCENAKPGQLIQTVSVMKDDPPRGHKFFFEVPEFTLNPFTIVDNKDNTAGIMTRKDGYSRNK
MSTYLLPILIFDNDYPIQSSTGTLTIRVCACDNQNMQSCTAEALILSAGLSTGALVAILLCVILLILLV
VLF AALKRQRKKEPLIISKDDVRDNIVTYNDEGGGEEDTQAFDIGTLRNPEAREDSKLRDVPETIFQI
RRTVPLWENIDVQDFIHRRLKENDADPSAPPYDSLATYAYEGNDSIADSLSSLESLTADCNQDYDYLSDW
GPRFKKLADMYGGDDSDRD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8120_a09.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_016279

ORF Size: 2367 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_016279.4](#)

RefSeq Size: 3075 bp

RefSeq ORF: 2370 bp

Locus ID: 1007

UniProt ID: [Q9ULB4](#)

Cytogenetics: 5p14.1

Domains: Cadherin_C_term, CA

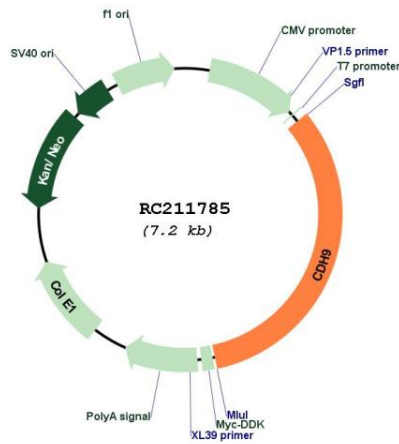
Protein Families: Transmembrane

MW: 89.1 kDa

Gene Summary:

This gene encodes a type II classical cadherin from the cadherin superfamily, integral membrane proteins that mediate calcium-dependent cell-cell adhesion. Mature cadherin proteins are composed of a large N-terminal extracellular domain, a single membrane-spanning domain, and a small, highly conserved C-terminal cytoplasmic domain. The extracellular domain consists of 5 subdomains, each containing a cadherin motif, and appears to determine the specificity of the protein's homophilic cell adhesion activity. Type II (atypical) cadherins are defined based on their lack of a HAV cell adhesion recognition sequence specific to type I cadherins. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC211785