

Product datasheet for **RC206041**

CDH18 (NM_004934) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDH18 (NM_004934) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CDH18
Synonyms:	CDH14; CDH14L; CDH24
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC206041 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAAATTACTAGCACATCTTGCATCTGTCCAGTCTAGTGTGTCTCTGTTTTGTGCAGAGGTGTATG
GAACTGCTCACCACAGCTCCATCAAGGTGATGAGAAAACAAACAAACACATTGAAGGTGAAACCGAAGT
CCATCATCGTCCCAAAAGGGGATGGGTATGGAATCAGTCTTTGTTTTAGAAACAATATGGGACCAGAT
CCTCAGTATGTTGGAAAGCTGCACTCCAATTCTGACAAAGGTGATGGATCTGTCAAGTACATCCTTACTG
GAGAGGGTGTGGGACTATATTTATCATTGACGATACCACGGGTGATATCCACTCAACAAAAAGCCTAGA
CAGAGAGCAGAAGACCCACTATGTGCTTACGCTCAAGCTATTGATAGACGTACAAACAAACCTCTTGAG
CCTGAATCCGAGTTCATCATCAAAGTGAAGACATCAATGACAACGCTCCAAAATTCACAGATGGACCAT
ACATTGTTACTGTGCCTGAAATGTCAGATATGGGTACCTCTGTTCTACAGGTGACAGCTACTGATGCAGA
TGACCCTACCTATGGAACAGCGCTCGGGTGGTTACAGCATTCTCCAGGGACAACCCCTACTTCTCCGTC
GACCCTAAAACAGGAGTTATTAGAACGGCTTACATAACATGGACGGAGAAGCCAGAGAACATTACTCCG
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CTTAACCGATGTCAATGACAACACACCAGCTTTCCTCAAAAACACTATCAGCTATATGTTCTGAGTCA
GCTCAAGTTGGTTCAGCTGTTGGGAAAAAACAAGGCAAAATGATGCTGACACTGGCTCAAAATGCTGACATGA
CCTACTCCATCATAAATGGTGTGGCATGGGAATATTCTCAATCTCCACTGACAAAGAGACCAGAGAAGG
AATCCTTTCTTTAAAGAAGCCACTGAACTATGAGAAAAAGAAGTCATATACCCTCAACATAGAAGGAGCA
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AGGTTCTCGACAGAGAAGAACTCCATGGTACAACATCACAGTCACTGCTTCAGAAATTGATAATCTGTA
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AAGATGATTTTGCCAATGGACCAAGGTTAACTTCTTTCTTGATGAGCGCTGCCTGTAATCCAACTT
CACTCTGAAGGACAATGAAGATAACACAGCCAGCATTCTGACAAGGCGGAGGAGATTTAGTCGAAGTGT
CAGGATGTGATTTATCTGCCATTATGATCTCTGATGGTGAATCCCCTCTCTCAGCAGCAGCAGCACCC
TCACCATCAGGGTTTGTGATGCGAGAGAGATGGGCGTGTGCGGACCTGCCATGCAGAAGCCTTCTGTG
CTCGGCTGGTTTGTGATACAGGAGCCTTAATCGCTATTCTTCTCTGTGTTCTCATTCTCCTGGCAATTGTG
GTACTTTTTATCACCTGAGGCGCAGCAAAAAGAGCCCTTGATCATTTCAGAAGAGGATGTACGGGAGA
ACGTGGTACCTATGATGATGAAGGAGGCGGAGAGGAAGACACAGGGGCTTTGACATCACAGCCTTGAG
GAATCCTTCTGCTGCTGAGGAGCTCAAGTACCGGAGGGATATCAGACCTGAAGTGAAGCTCACTCCCAGA
CACCAGACATCATCCACCCTGGAAGCATAGATGTTTCAAGGAAATTTAAGCAAAGACTGGCAGAAGCAG
ACCTAGACCCTAGCGTTCCTTATGACTCTCTCAGACTTATGCCTATGAGGGTCAAGATCAGAAGC
TGGGTCTATCAGCTCGCTGGATTGAGCAACGACACAATCAGACCAGGATTATCACTACCTGGAGACTGG
GGACCCGAGTTTAAAAAGTTAGCTGAACTCTATGGAGAAATAGAATCTGAAAGAACAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA

Protein Sequence: >RC206041 protein sequence
Red=Cloning site Green=Tags(s)

MKITSTSCICPVLVCLCFVQRCYGAHSSIKVMRNQTKHIEGETEVHHRPKRGWVWNQFFVLEEHPGD
PQYVYVGLHSNSDKGDGSKYIILTGEGAGTIFIIDDTTGDHSTKSLDREQKTHYVLAQAIDRRTNKPLE
PESEFIIKVDINDNAPKFTDGPYIVTVPEMSDMGTSVLQVTATDADDPTYGNSARVVYSILQGGPYFSV
DPKTGVIRTUALHNMDGEAREHYSVVIQAKDMAGQVGGVSGSTTVNITLTDVNDNTPRFPQKHYQLVYPES
AQVGSVAVGKIKANDADTGSNADMTYSIINGDGMGIFSISTDKETREGILSLKKPLNYEKKKSYTLNIEGA
NTHLDFRFSHLGPFKDATMLKIIVGDVDEPPLFSMPSYLMVYENAKIGTVVGTVLAQDPDSINSLVRYF
INYNVEDDRFFNIDANTGIRTTKVLDRRETPWYNITVTASEIDNPDLLSHVTVGIRVLDVNDNPPELAR
EYDIIVCENSKPGQVIHTISATDKDDFANGPRFNFLDERLPVNPNTLKDNEANTASILTRRRRFSRTV
QDVYYLPIMISDGGIPSLSSSSTLTIRVCACERDGRVRTCHAEAFSSAGLSTGALIAILLCVLILLAIIV
VLFITLRRSKKEPLIISEEDVRENVVTVYDDEGGGEEDTGAFDITALRNPSAAEELKYRRDIRPEVKLT
HQTSSSTLESIDVQEFIKQRLAEADLDPSVPPYDSLQTYAYEGQRSEAGSISLSDSATTQSDQDYHYLGDW
GPEFKKLAELYGEIESERTT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6202_d06.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:


ACCN: NM_004934

ORF Size: 2370 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_004934.5](#)

RefSeq Size: 3102 bp

RefSeq ORF: 2373 bp

Locus ID: 1016

UniProt ID: [Q13634](#)

Cytogenetics: 5p14.3

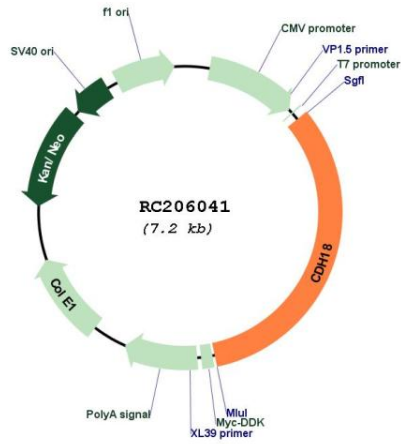
Domains: Cadherin_C_term, CA

Protein Families: Transmembrane

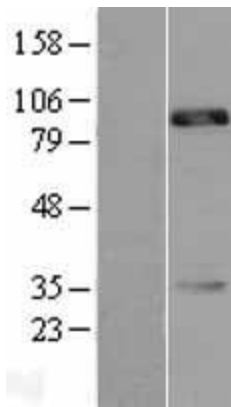
MW: 87.9 kDa

Gene Summary: This gene encodes a type II classical cadherin from the cadherin superfamily of 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. Type II (atypical) cadherins are defined based on their lack of a HAV cell adhesion recognition sequence specific to type I cadherins. This particular cadherin is expressed specifically in the central nervous system and is putatively involved in synaptic adhesion, axon outgrowth and guidance. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2014]

Product images:



Circular map for RC206041



Western blot validation of overexpression lysate (Cat# [LY401535]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206041 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).