

Product datasheet for **RG230296**

CDH18 (NM_001167667) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDH18 (NM_001167667) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CDH18
Synonyms:	CDH14; CDH14L; CDH24
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG230296 representing NM_001167667
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAAATTACTAGCACATCTTGCATCTGTCCAGTCTAGTGTGTCTCTGTTTTGTGCAGAGGTGTATG
 GAACTGCTCACCACAGCTCCATCAAGGTGATGAGAAACCAACCAACACATTGAAGGTGAAACCGAAGT
 CCATCATCGTCCCAAAAGGGGATGGGTATGGAATCAGTCTTTGTTTTAGAAACATATGGGACCAGAT
 CCTCAGTATGTTGGAAAGCTGCACTCCAATTCTGACAAAGGTGATGGATCTGCAAGTACATCCTTACTG
 GAGAGGGTGTGGGACTATATTTATCATTGACGATACCACGGGTGATATCCACTCAACAAAAAGCCTAGA
 CAGAGAGCAGAAGACCCACTATGTGCTTACGCTCAAGCTATTGATAGACGTACAAACAAACCTCTTGAG
 CCTGAATCCGAGTTCATCATCAAAGTCAAGACATCAATGACAACGCTCCAAAATTCACAGATGGACCAT
 ACATTGTTACTGTGCCTGAAATGTCAGATATGGGTACCTCTGTTCTACAGGTGACAGCTACTGATGCAGA
 TGACCCTACCTATGGAACAGCGCTCGGGTGGTTACAGCATTCTCCAAGGACAACCTACTTCTCCGTC
 GACCCTAAAACAGGAGTTATTAGAACGGCTTACATAACATGGACAGAGAAGCCAGAGAACATTACTCCG
 TAGTCATTCAAGCCAAAGACATGGCTGGCAAGTTGGAGGGCTTTCCAGGATCTACAACAGTCAACATCAC
 CTTAACCGATGTCAATGACAACCCACCAGCTTTCTCAAAAACACTATCAGCTATATGTTCTGAGTCA
 GCTCAAGTTGGTTCAGCTGTTGGGAAAAAACAAGGCAAAATGATGCTGACACTGGCTCAAAATGCTGACATGA
 CCTACTCCATCATAAATGGTGTGGCATGGGAATATTCTCAATCTCCACTGACAAAGAGACCAGAGAAGG
 AATCCTTTCTTTAAAGAAGCCACTGAACTATGAGAAAAAGAAGTCATATACCCTCAACATAGAAGGAGCA
 AATACACATCTTGATTTTCGCTTTCTCACTTGGGTCTTTTAAAGATGCTACTATGCTGAAGATCATTG
 TTGGGGATGTAGATGAACCACCCTATTTTCCATGCCTTCTCATGGAAGTCTACGAAAATGCCAA
 GATTGGGACCGTCGTTGGTACAGTTTTGGCAAGATCCTGACAGTACTAACAGCTTAGTAAGATCTTC
 ATCAACTACAATGTTGAAGACGACAGATTTTTCAACATTGATGCCAATACTGGGACCATTAGGACTACAA
 AGGTTCTCGACAGAGAAGAACTCCATGGTACAACATCACAGTCACTGCTTCCAGAAATTGATAATCCTGA
 TTTGCTGAGCCATGTCACAGTGGGTATTAGAGTTCTGGATGTCAATGACAATCCACCCGAACTTCCAGG
 GAATATGATATTATTGTATGTGAAAATTCTAAGCCTGGCCAGGTTATTTCATACCATCAGTCCACTGATA
 AAGATGATTTTGCCAATGGACCAAGGTTAACTTCTTTCTTGATGAACGCTGCCTGTAATCCAACTT
 CACTCTGAAGGACAATGAAGCAGCAGCACCTCACCATCAGGTTTGTGCATGCGAGAGAGATGGGCGTG
 TCGCGACCTGCCATGCAGAAGCCTTCTGTCTCGGCTGGTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG230296 representing NM_001167667
 Red=Cloning site Green=Tags(s)

MKITSSTICPVLVCLCFVQRCYGAHSSIKVMRNQTKHIEGETEVHHRPKRGWVWNQFFVLEEHPD
 PQYVYVGLHNSDKDGSVKYILTGEAGTIFIIDDTTGDIHSTKSLDREQKTHYVLAQAIDRRNTKPLE
 PESEFIIKVQDINDNAPKFDGPYIVTPEMSDMGTSVLQVTATDADDPTYGNSARVVYSILQGGPYFSV
 DPKTGVIRTALHNDREAREHYSVVIQAKDMAGQVGGLSGSTTVNITLTDVNDNPPRFPQKHYQLYVPES
 AQVGSVAVGKIKANDADTGSNADMTYSIINGDGMGIFISIDKETREGILSLKKPLNYEKKKSYTLNIEGA
 NTHLDFRFSHLGPFKDATMLKIIIVGDVDEPPLFSMPSYLMEVYENAKIGTVVGTVLAQDPDSTNSLVRYF
 INYNVEDDRFFNIDANTGIRTTKVLDRRETPWYNITVTASEIDNPDLLSHVTVGIRVLDVNDNPPELAR
 EYDIIVCENSKPGQVIHTISATDKDDFANGPRFNFFLDERLPVNPNTLKDNEAAAPSPSGFVHAREMGV
 CGPAMQKPCPRLV

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001167667

ORF Size: 1722 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_001167667.3](#)

RefSeq Size: 2993 bp

RefSeq ORF: 1725 bp

Locus ID: 1016

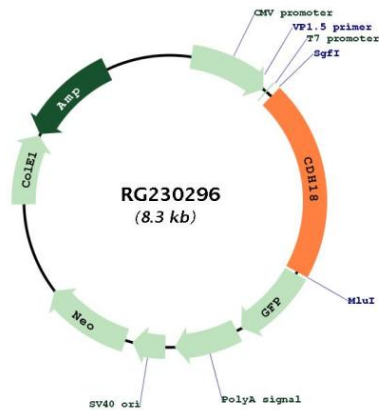
UniProt ID: [Q13634](#)

Cytogenetics: 5p14.3

Protein Families: Transmembrane

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 RG230296