

## Product datasheet for **RC238954**

### CDH18 (NM\_001291957) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CDH18 (NM_001291957) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CDH18
Synonyms:	CDH14; CDH14L; CDH24
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC238954 representing NM\_001291957  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAATTACTAGCACATCTTGCATCTGTCCAGTCTAGTGTGTCTCTGTTTTGTGCAGAGGTGTATG  
 GAACTGCTCACCACAGCTCCATCAAGGTGATGAGAAACCAACCAACACATTGAAGGTGAAACCGAAGT  
 CCATCATCGTCCCAAAAGGGGATGGGTATGGAATCAGTCTTTGTTTTAGAAACATATGGGACCAGAT  
 CCTCAGTATGTTGAAAGCTGCACTCCAATTCTGACAAAGGTGATGGATCTGCAAGTACATCCTTACTG  
 GAGAGGGTGTGGGACTATTTTATCATTGACGATACCACGGGTGATATCCACTCAACAAAAAGCCTAGA  
 CAGAGAGCAGAAGACCCACTATGTGCTTACGCTCAAGCTATTGATAGACGTACAAACAAACCTCTTGAG  
 CCTGAATCCGAGTTCATCATCAAAGTCAAGACATCAATGACAACGCTCCAAAATTCACAGATGGACCAT  
 ACATTGTTACTGTGCCTGAAATGTCAGATATGGGTACCTCTGTTCTACAGGTGACAGCTACTGATGCAGA  
 TGACCCTACCTATGGAACAGCGCTCGGGTGGTTACAGCATTCTCAAGGACAACCTACTTCTCCGTC  
 GACCCTAAAACAGGAGTTATTAGAACGGCTTACATAACATGGACAGAGAAGCCAGAGAACATTACTCCG  
 TAGTCATTCAAGCCAAAGACATGGCTGGCAAGTTGGAGGGCTTTCCAGGATCTACAACAGTCAACATCAC  
 CTTAACCGATGTCAATGACAACCCACCAGCTTTCTCAAAAACACTATCAGCTATATGTTCTGAGTCA  
 GCTCAAGTTGGTTCAGCTGTTGGGAAAAAACAAGGCAAAATGATGCTGACACTGGCTCAAAATGCTGACATGA  
 CCTACTCCATCATAAATGGTGTGGCATGGGAATATTCTCAATCTCCACTGACAAAGAGACCAGAGAAGG  
 AATCCTTTCTTTAAAGAAGCCACTGAACTATGAGAAAAAGAAGTCATATACCCTCAACATAGAAGGAGCA  
 AATACACATCTTGATTTTCGCTTTCTCACTTGGGTCTTTTAAAGATGCTACTATGCTGAAGATCATTG  
 TTGGGGATGTAGATGAACCACCCTATTTTCCATGCCTTCTCACTCATGGAAGTCTACGAAAATGCCAA  
 GATTGGGACCGTCGTTGGTACAGTTTTGGCACAAGATCCTGACAGTACTAACAGCTTAGTAAGATACTTC  
 ATCAACTACAATGTTGAAGACGACAGATTTTTCAACATTGATGCCAATACTGGGACCATTAGGACTACAA  
 AGGTTCTCGACAGAGAAGAACTCCATGGTACAACATCACAGTCACTGCTTCCAGAAATTGATAATCCTGA  
 TTTGCTGAGCCATGTCACAGTGGGTATTAGAGTTCTGGATGTCAATGACAATCCACCCGAACTTCCAGG  
 GAATATGATATTATTGTATGTGAAAATTCTAAGCCTGGCCAGGTTATTTCATACCATCAGTCCACTGATA  
 AAGATGATTTTGCCAATGGACCAAGGTTAACTTCTTTCTTGATGAACGCTGCCTGTAATCCAACTT  
 CACTCTGAAGGACAATGAAGCAGCAGCAGCACCCTCACCATCAGGGTTTGTGCATGCGAGAGAGATGGGC  
 GTGTGCGGACCTGCCATGCAGAAGCCTTCTGTCTCGGTGGTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238954 representing NM\_001291957  
 Red=Cloning site Green=Tags(s)

MKISTSTICIPVLVCLCFVQRCYGTAAHSSIKVMRNQTKHIEGETEVHHRPKRGVWVWVNFVLEEHMGPD  
 PQYVVKLHSNSDKGDGVSVKYILTGEGAGTIFIIDDTTGDHSTKSLDREQKTHYVLHAQAIDRRTNKPLE  
 PESEFIIKVDINDNAPKFTDGPYIVTVPEMSDMGTSVLQVTATDADDPTYGNSARVVYSILQGGPYFSV  
 DPKTGVRTALHNMDREAREHYSVVIQAKDMAGQVGGLSGTTVNITLTDVNDNPPRFPQKHQLYPES  
 AQVGSVAGKIKANDADTGSNADMTYSIINGDGMGIFSISTDKETREGILSLKKPLNYEKKKSYTLNIEGA  
 NTHLDFRFSHLGPFKDATMLKIIIGDVDEPPLFSMPSYLMEVYENAKIGTVVGTVLAQDPDSTNSLVRYF  
 INYNVEDDRFFNIDANTGIRTTKVLDRRETPWYNITVTASEIDNPDLLSHVTGIRVLDVNDNPPELAR  
 EYDIIVCENSKPGQVIHTISATDKDDFANGPRNFFLDERLPVNPNTLKDNEAAAAPSPSGFVHAREMG  
 VCGPAMQKPSCPRLV

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

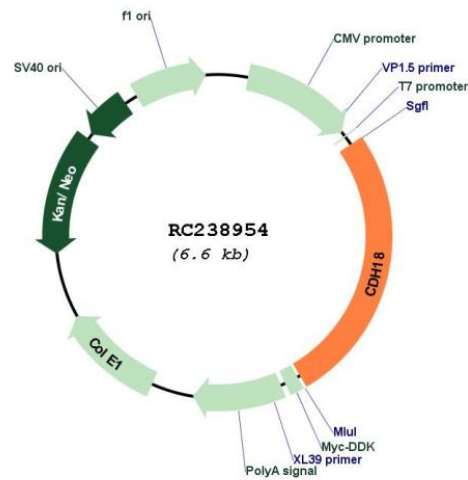
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001291957  
 ORF Size: 1725 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001291957.2</a>
<b>RefSeq Size:</b>	2974 bp
<b>RefSeq ORF:</b>	1728 bp
<b>Locus ID:</b>	1016
<b>Cytogenetics:</b>	5p14.3
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	64.2 kDa
<b>Gene Summary:</b>	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]