

## Product datasheet for **RR215513**

### **Cdh5 (NM\_001107407) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cdh5 (NM_001107407) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdh5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RR215513 representing NM\_001107407  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCAGAGGCTCACAGAGCTGGCCACTGCTTTGGGCACCTTCTTGGCCCTGCTGGCAGTGGCAGCGATGG  
 CAGGCCCCAACATGCTGCCTGTCCACCAGCGCCAAAAGAGAGACTGGATTTGGAATCAAATGCACATAGA  
 TGAAGAGAAAAATGAGTCGCTGCCCACTATGTGGGAAAGATCAAGTCCAATGTGAACCGTCAGAATGCT  
 AAGTATGTGCTCCAAGGAGAACAAGCTGGCAAGATCTTCAGGGTCGATGCTGACACAGGGGATGTGCTTG  
 CCTATGAGAGGTTAGACCGGGAAAAAGTCTCTGAGTACTTCTTACTGCCCTCATTGTGGACAAGAAGAC  
 CAACAAAAACCTGGAACAACCTTCCAGCTTCACTGTCAAGGTGCATGATGTAATGACAACCTGGCCTGTG  
 TTTACGCACCAGGTATTCACGCATCTGTGCCGAGATGTCAGCTATAGGGACCTCTGTCATCCGTGTGA  
 CAGCAACGGATGCAGATGACCCTACGGTGGCTGGCCACGCCACTGTCTTGTACCAAATGGTAAAAGGAAA  
 TGAGTACTTCGCATCGACAATTCTGGACTCATTTTACAAAGGACAAAACTTGGACAGAGAGACACGG  
 GCTGAATACAAGATCGTGGTGAAGCACAAAGATGCCAGGGTCTGCGGGGAGAGTCAGGCACAGCCACTG  
 TGCTGATCAGATTGGAAGACATCAATGACAACCTCCCCATCTTACTCAGTCCACATACACATTTTCGGT  
 GCCTGAAGATATCCGTGTGGCAAGCCCTTGGGCTCTCTCTGTGGAGACCCAGATGAGCCTCAGAAC  
 CGGATGACCAAATATAGCATCATGCAGGGCGAGTACAGGGACACCTTACCATTGAGACAGACCCCGACC  
 GTAATGAGGGTATCATCAAACCCACAAAGCCCTGGACTATGAACTATCCAGCAGTACACGTTCCACAT  
 CGAGGCCACAGACCCCACTATCAGACTCGGATACCTGAGCAGCACTGCGGGCAAAAAACAAAGCCAAGATC  
 ATCATCAATGTCTAGATGTGGATGAGCCCCCTGTCTTCCAGCGACGCTTCTACCACTTCCACCTGCCCG  
 AAAACAAGAAGAACCCTGATTGGCACTGTGGTGGCCAAAGACCCCGCAAGGCTCAACGCAGCATAGG  
 ATACTCCATCCGCAAGACCAAGTACAGAGGCCAATACTTCCGAATAACCAAACAAGGGAACATCTATAAT  
 GAGAAAGAACTGGACAGAGAAACCCACGCTGGTATAACCTGACTGTGGAGGCCAACGAATTGGATTCTA  
 GGGGTAACCTGTAGGTAAGAATCCATTGTACAGATTTACATTGAAGTTTTGGATGAGAATGACAACGC  
 CCCAGAATTTGCCAGCCCTACGAACCTAAAGTATGTGAGAATGCTGCCAGGGCAAGCTGGTAGTACAG  
 ATCTCTGCAACAGACAAGGACGTGGTGCCAGTAAACACAAAGTTCAAGTTTGCCTGAAGAACGAGGACA  
 GCAACTTACCCTCATCAACAACCAGACAATACCGCCAACATCACAGTCAAGTATGGACAGTTTAAATCG  
 GGAGCATACCAAGTCCACTACCTGCCTGTGCTCATCTCCGACAATGGGATGCCAGCCTGACTGGAACC  
 GGCACGCTAACAGTGGCTGTGTGCAAAATGCAACGAACAGGGCGAGTTCACCTTCTGTGAGGAGATGGCCG  
 CACAGGCGGGTGTGAGTCCAGGCACTGGTAGCCATCTTCTGTGATCCTCACCATCACAGTATCAC  
 CTTGCTGATCTTCTGCGGAGGGCGCTCCGGAAGCAGGGCGATGCTCATAGCAAGAGTGCCTTGAGATT  
 CATGAGCAGTTGGTACCTACGACGAGGAGGGCGGTGGCGAGATGGACACCACAAGCTACGACGTGTCTG  
 TGCTTAATTCTGTGCGCACCGGCTCCAACAAGCCTCTGCGGTCCACGATGGATGCCCGGCCAGCAGTATA  
 CACACAGGTGCAGAAGCCTCCAGACTGGCGCTAGCCTGCACGGAGGGCCAGAGAGATGGCCACCATG  
 ATCGAGGTGAAGAAAGAAGAGGCAGACAATGATGGCGTGGTCCCCCTACGATACACTGCACATCTACG  
 GCTACGAGGGCACAGAGTCCATCGCAGAGTCCCTCAGCTCCCTGAGCACAATTCCTCCGACTCTGACAT  
 CGACTATGACTTCTCAATGACTGGGGACCCAGGTTCAAGATGCTGGCAGAGCTGTATGGCTCAGATCCT  
 CAGGAAGAGCTCATCATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR215513 representing NM\_001107407  
Red=Cloning site Green=Tags(s)

MQRLTELATALGTFLGLLAVAAMAGPNMLPVHQKRDWIWNQMHIDEEKNESLPHYVVGKIKSNVNRQNA  
KYVLQGEQAGKIFRVDADTGDVLAERLDREKVSEYFLTALIVDKKTNKNLEQPSSFTVKVHDVNDNWPV  
FTHQVFNASVPMSAIGTSVIRVTATDADDPTVAGHATVLYQMVKGNEYFAIDNSGLIFTKDKNLDRETR  
AEYKIVVEAQDAQGLRGESGTATVLRLEDINDNFIFTQSTYTFVSPEDIRVGKPLGSLSVEDPDEPQN  
RMTKYSIMQGEYRDTFTIETDPRNEGIKPTKPLDYELIQQYTFHIEATDPTIRLGYLSSSTAGKNKAKI  
IINVLVDVEPPVFQRRFYHFLPENKKKPLIGTVVAKDPDKAQRSIGYSIRKTSDRGQYFRITKQGNIN  
EKELDRETHAWYNLTVEANELDSRGNPVGKESIVQIYIEVLDENDNAPEFAQPYEPKVCENAAQGKLVVQ  
ISATDKDVVPVNTKFKFALKNEDSNFTLINNHNTANITVKYGGFNREHTKFHYLPVLISDNGMPSLTGT  
GTLTVAVCKCNEQGEFTFCEEMAAQAGVSIQALVAIFLCILTITVITLLIFLRRRLRKQAHHSKSALEI  
HEQLVTYDEEGGEMDTTSYDVSVLNSVRTGSNKPLRSTMDARPAVYTQVQKPPRLAPSLHGGPREMATM  
IEVKKEEADNDGGPPYDTLHIYGYEGTESIAESLSSLSTNSSDSDIDYDFLNDWGPFRKMLAELYGSDP  
QEELII

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2555\\_f04.zip](https://cdn.origene.com/chromatograms/ja2555_f04.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\_001107407

ORF Size: 2328 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](mailto: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\\_001107407.1](#), [NP\\_001100877.1](#)

**RefSeq Size:** 2550 bp

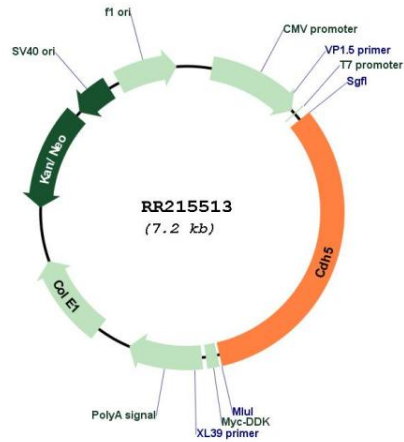
**RefSeq ORF:** 2331 bp

**Locus ID:** 307618

**Cytogenetics:** 19p14

**MW:** 87.6 kDa

Product images:



Circular map for RR215513