

## Product datasheet for **MR222127**

### **Cdh15 (NM\_007662) Mouse Tagged ORF Clone**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                      |
| Product Name:             | Cdh15 (NM_007662) Mouse Tagged ORF Clone |
| Tag:                      | Myc-DDK                                  |
| Symbol:                   | Cdh15                                    |
| Synonyms:                 | A1323380; Cdh14; Mca; Mcad               |
| Mammalian Cell Selection: | Neomycin                                 |
| Vector:                   | pCMV6-Entry (PS100001)                   |
| E. coli Selection:        | Kanamycin (25 ug/mL)                     |



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**ORF Nucleotide  
Sequence:**

>MR222127 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGTTCTGCTCTGCTCCTCGCCCTCGGGCTGCTTGCCAGAGCCTTGGCCTGTCTGGGCAGTCCCTG  
 AGCCCAAACCCAGCACCCCTGTACCCTGGCGCCGGGCATCAGCCCAGGCCGTGTGCGGAGAGCCTGGGT  
 CATCCACCCATTAGTGTGTCTGAGAACCACAAACGCCTCCCCTACCCACTTGTGCAGATCAAGTCTGAC  
 AAACAGCAGCTAGGCAGTGTCTACAGCATCCAGGGTCCCGGAGTGGATGAGGAGCCCGAAATGTCT  
 TCTCCATCGACAAGTTCACCGGGAGGGTGTACCTCAATGCCACGCTGGACCGGAGAAGACGGACCCTT  
 CAGGCTAAGGGCCTTTGCCTTGGACTTGGGTGGCTCTACCCTGGAGGACCCACGGACCTGGAGATCGTT  
 GTGGTGGATCAAATGACAACCGGCCAGCCTTCTACAGGATGTGTTAGAGGCCGCATCCTGGAGGGTG  
 CCATCCAGGCACCTTCGTACCAGGGCTGAGGCCACAGATGCCAGACCCAGAGACAGACAATGCAGC  
 CCTCAGGTTCTCCATCCTGGAGCAGGGCAGCCCTGAGTTCTTCAGCATCGACGAGCACACGGGAGAGATC  
 CGCACGGTGCAAGTGGGGCTGGACCGTGAGGTGGTGGCTGTGATAATCTGACCTTGCAAGTGGCAGACA  
 TGTCGGGAGACGGACTCACTGCCACAGCCTCGGCCATCATCTCCATAGATGACATCAACGACAATGCCCC  
 CGAGTTACCAAGGATGAGTTCTTTATGGAGGCTGCAGAGGCTGTGAGTGGAGTGGACGTGGGACGGCTC  
 GAGGTGGAAGACAAGGACCTGCCTGGTTCCCCAACTGGGTGGCCAGGTTACCATCCTTGAAGGTGATC  
 CTGATGGGCAGTCAAGATCTACACAGACCCTAAGACCAATGAAGGTGTGCTGTCCGTGGTCAAGCCCT  
 GGACTATGAGAGCCGTGAGCAGTATGAGCTCAGAGTGTCTGTACAAAACGAGGCCCGCTGCAGGCAGCT  
 GCCCTCGGGCTCGGCCGGGCCAGACCAGGGTCAGCGTGTGGTTCAGGACACCAACGAAGTCCAGTGT  
 TTCCAGAGAACCCTGAGGACGAGCATAGCTGAAGGAGCCCCCAGGCACCTGTGGCCACCTTCTC  
 TGCCAGAGACCCTGACACAGAACAGCTGCAGAGAATCAGCTACTCCAAAGACTACGACCCAGAAGACTGG  
 CTGCAAGTGGACGGGCCACAGGCAGGATCCAGACCCAGCGAGTGTGAGCCCTGCTTACCCTTTTTGA  
 AGGACGGCTGGTACAGAGCCATCATCTAGCCCTGGACAATGCCATTCTCCTAGCACAGCCACAGGCAC  
 CCTGTCCATCGAGATCCTAGAAGTCAACGACCATGCCCTGCACTGGCTTCTCCTCCATCTGGCAGCCTG  
 TGCAGTGAACCAGACCAGGGCCCTGGCCTCCTCTTGGGTGCCACGGATGAGGACCTGCCCCACACGGGG  
 CCCCTTCCACTTCCAGCTGAACCCAGAGTACCAGATCTGGGCCGAACTGGAGCGTCAGCCAGATTAA  
 CGTGAGCCATGCACGCTTGGCGCTCCGACATCAGGTCTCCGAGGGCTGCATCGCCTGAGCTGCTACTC  
 CAGGACTCTGGGAGCCACCCAGCAGCGAGAGCAAACGCTGAACGTACCGTGTGTGCTGTGGTTCGG  
 ATGGCACTTGCTGCCCGGGCTGCCCGCTTCGAGGAGGAGGTGTAGGGCTCAGCTTGGGGCACTGGT  
 CATTGTGCTGGCCAGCACCGTGGTCTTACTAGTTCTCATCTGCTTGGCCGCTCCGCACACGGTCCGG  
 GGGCATTCCCGGGGAAGAGTCTGTTGCATGGCCTACAAGAGGACCTTCGGGACAACATCCTTAATATG  
 ATGAGCAAGGAGGCGGGGAGGAGGACCAGGATGCGTACGACATAAACCAGCTGCGCCACCCAGTGGAGCC  
 GAGGGCCACAAGTCGCTCTTGGGACGGCCACCCCTGCGCAGGGATGCCCTTCCAGTATGTGCCACAG  
 CCACATCGAGTGTCTCCACCAGCCATCTGACATTGCCAACTTCATCAGTGTGGCTTGGAGGCTGCGG  
 ACAGCGACCCAGCGTGCCTCCCTACGACACAGCTCTCATATGACTACGAGGGAGATGGCTCTGTGGC  
 AGGGACGCTGAGTCCATTCTGTCCAGCCTGGGAGATGAAGACCAGGACTATGACTACCTCCGGGACTGG  
 GGACCCCGCTTGGCTCGGCTGGCCGACATGTATGGACATCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR222127 protein sequence  
 Red=Cloning site Green=Tags(s)

MGSALLLALGLLAQLGLSWAVPEPKPSTLYPWRRASAPGRVRRRAWIPPI SVSENHKRLPYPLVQIKSD  
 KQQLGSVIYSIQGPGVDEEPRNVFSIDKFTGRVYLNATLDREKDRFRLRAFALDLGGSTLEDPTDLEIV  
 VVDQNDNRPAFLQDVFRGRILEGAIPGTFVTRAEATDADDPETDNAALRFSILEQGSPEFFSIDEHTGEI  
 RTVQVGLDREVVAVYNLTQVADMSGDGLTATASAIISIDDINDNAPEFTKDEFFMEAAEAVSGVDVGRLE  
 EVEDKDLPGSPNWWARFTILEGDPDGQFKIYTDPKTNEGVL SVVKPLDYESREQYELRVSVQNEAPLQAA  
 APRARRGQTRVSVWVQDTNEAPVFPENPLRTSIAEGAPPGTSVATFSARDPDTEQLQRISYSKDYDPEDW  
 LQVDGATGRIQTQRVLSASPFLKDGWYRAIILALDNAIPPSTATGTL SIEILEVNDHAPALALPPSGSL  
 CSEPDQGPGLLLGATDEDLPPHGAPFFHQLNPRVPDLGRNWSVSQINVSHARLRLRHQVSEGLHRLSLLL  
 QDSGEPQQREQTLNVTVCRCGSDGTCLPGAAALRGGGVGSLGALVIVLASTVVLLVLLIILAALRTRFR  
 GHSRGKSLHGLQEDLRDNILNYDEQGGGEEDQDAYDINQLRHPVEPRATSRSLGRPPLRRDAPFSYVPQ  
 PHRVLPTSPSDIANFISDGLEAADS DPSVPPYDTALIYDYE G DGSVAGT LSSILSSLGDEDQDYDLRDW  
 GPRFARLADMYGHQ

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



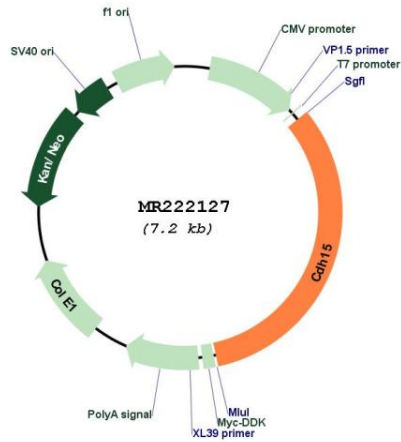
\* The last codon before the Stop codon of the ORF

ACCN: NM\_007662

ORF Size: 2355 bp

|                               |  |
|-------------------------------|--|
| <b>OTI Disclaimer:</b>        | <p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p> |
| <b>OTI Annotation:</b>        | <p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>  |
| <b>Components:</b>            | <p>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).</p>  |
| <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>                | <p><a href="#">NM_007662.2</a>, <a href="#">NP_031688.2</a></p>  |
| <b>RefSeq Size:</b>           | <p>2843 bp</p>   |
| <b>RefSeq ORF:</b>            | <p>2355 bp</p>   |
| <b>Locus ID:</b>              | <p>12555</p>   |
| <b>UniProt ID:</b>            | <p><a href="#">P33146</a></p>  |
| <b>Cytogenetics:</b>          | <p>8 71.99 cM</p>  |
| <b>MW:</b>                    | <p>85.6 kDa</p>  |
| <b>Gene Summary:</b>          | <p>This gene encodes a member of the cadherin family of calcium-dependent glycoproteins that mediate cell adhesion and regulate many morphogenetic events during development. The encoded preproprotein is further processed to generate a mature protein. Based on the expression of this gene in skeletal muscle, satellite cells and cerebellum, it was postulated that the encoded protein may be important for muscle development and regeneration. Mice lacking the encoded protein appear normal and display no discernible defects in skeletal musculature. Multiple distinct genes of the cadherin family, including this gene, are found on chromosome 8. [provided by RefSeq, Nov 2015]</p>   |

Product images:



Circular map for MR222127