

## Product datasheet for **MC200925**

### **Cdh13 (NM\_019707) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cdh13 (NM_019707) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cdh13
Synonyms:	4932416G01Rik; Cdht; T-cadh; Tca; Tcad
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC021628 sequence for NM\_019707  
 CCACGCGTCCGGGCAGAGCCTCTCCTCAAAGGCTGGTCCCACGGAAAATATGCTCAGTGCAGCCGCGTG  
 TGTGAATGCAAACGCCGCCAGGCGCTTCTTCTAGTCGGGCAAGATGCAGCCGAGAACTCCGCTCACCCCTG  
 TGCGTCTGTGTCCCAGGTGCTCTGGTCACTGCTGCAGATGATCTGGAGTGCACCCCTGGATTCCAGC  
 AGAAAGTGTACACATCCACCAGCCTGCCGAATTCATCGAGGACCAGCCTGTCTAAACTTGACCTTCAG  
 TGACTGCAAGGGCAACGAGAAGTGCCTACGAGGTCTCAAGTCCACACTTCAAGGTGAACAGCGATGGC  
 ACCTTAGTGGCTCTCAGGAACATCACTGCGGTGGCAGGACCCTGTTTGTCCATGCGAGGACTCCTCATG  
 CTGAAGACATGGCAGAACTCGTGATTGTGGGGGCAAAGACATCCAGGGCTCCTTGCAAGGATATCTTTAA  
 ATTTGCAAGGACATCTCCTGTCCCAAGACAAAAGAGGTCCATTGTGGTGTCCCCATCTTGATCCCAGAG  
 AACAGAGACAGCCCTCCCCAGAGATGTGGCAAGGTAGTCGATAGCGACAGACCCGAAGGGTCCAAGT  
 TCCGGCTCACCGGAAGGGAGTGGATCAAGACCCTAAAGGAACTTTCAGAATCAATGAGAACACAGGCGAG  
 CGTCTCCGTGACACGGACCCTGGACAGAGAAACGATCGTACTTATCAACTGTATGTGAAACCACGGAT  
 GCCAGTGGCAAACCTCTGGAAGGGCCAGTGCCTCTGGAAGTCATTGTGATTGACCAGAACGACAACAGAC  
 CCATCTCCGGGAAGGCCCTTACATCGGCCATGTCATGGAAGGGTCAACACAGGGACCACGGTGTGCGG  
 GATGACAGCGTTTGTGATGACAGATGACCCGGCTACTGACAATGCTCTCCTGAGGTACAACATCCGTCAGCAG  
 ACGCCTGACAAGCCATCTCCTAACATGTTCTACATCGATCCCGAGAAAGGAGACATTGTACCCGTGGTGT  
 CACCTGCGCTGTGGACCGGGAGACTCTGAAAAACCCCAAGTATGAACTGATCATCGAAGCTCAAGATAT  
 GGCAGGATTGGATGTGGACTGACAGGCACAGCCACAGCCACCATCGTGATCGATGACAAAAATGATCAC  
 TCACCAAATTCACCAAGAAAGAGTTTCAAGCCACAGTGGAGGAGGGAGCTGTGGGGTCAATTGTCAACT  
 TGACAGTGAAGACAAAGACGACCCACACAGGAGCCTGGAGGGCTGCATACACCATCATCAATGGAAA  
 TCCTGGGCAGAGCTTCGAGATCCACACCAACCCACAGACCAACGAGGGCATGCTCTCTGTGGTCAAGCCC  
 CTGGACTATGAGATCTCTGCCTTTCACACCCTGCTGATCAAAGTGGAGAATGAGGACCCACTGGTACCCG  
 ACGTCTCCTATGGCCCCAGCTCCACGGCAACTGTCCACATCACAGTCTCTGGATGTCAACGAGGGACCAGT  
 CTCTACCCGGACCCCATGATGGTGACTAACAGGAGAACATCTCTGTGGCAGTGTGCTGCTGACAGTG  
 AATGCCACAGACCAGACTCCCTGCAACATCAAATATCAGGTAATCTGTCTACAAGGACCCAGCAGGCT  
 GGCTGAGTATCAACCCATCAATGGAACGGTGGACACCACAGCTGTGTTGGACCGGGAGTCCCCATTCTG  
 CCACAACAGTGTGTACACGGCCCTGTTCTGGCCATCGACAGTGGCAACCCTCCTGCAACTGGCACCGGG  
 ACTCTGCTGATAACCCTAGAGGACATTAATGACAACGCTCCTGTCATTTACCAACTGTGGCTGAGGTCT  
 GCGATGATGCCAGAACTCAGCGTGGTCACTTCTGGGGGCTTCAGACAAGGACCTTCAACCCAAACACAGA  
 CCCCTTCAAGTTTGAATTCATAAACAGACAGTCCCTGATAAAGTTTGAAGATCTCCAAAATCAACAAC  
 ACTCACGCCCTCGTGAGCCTTCTCAGAATCTGAACAAGGCAAACACTACAACCTGCCCATCATGGTGACAG  
 ATTCAGGGAAGCCACCCATGACGAACATCACGGACCTCAGGGTGCAGGTGTGCTCTTGCAAGAACTCCAA  
 AGTGGACTGCAACGGGGCTGGGGCCCTGCACCTCAGCCTCAGCTTGTGCTGCTCTTCTCTCCTCAGC  
 TTATTGTGAGGTCTGTGAGAACGACACGCTGAAGCTTACTCCCAAGTTGCCATAGCAACAGGAAAAAA  
 AAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_019707  
**Insert Size:** 2145 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](#)

**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:** [BC021628](#), [AAH21628](#)

**RefSeq Size:** 2333 bp

**RefSeq ORF:** 2145 bp

**Locus ID:** 12554

**UniProt ID:** [Q9WTR5](#)

**Cytogenetics:** 8 65.97 cM

**Gene Summary:** 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. This gene is highly expressed in the vasculature including endothelial cells, smooth muscle cells and pericytes, where the encoded protein binds to adiponectin and has been implicated in the modulation of angiogenesis. Multiple distinct genes of the cadherin family, including this gene, are found on chromosome 8. [provided by RefSeq, Nov 2015]