

## Product datasheet for **MR210637**

### **Cdh5 (NM\_009868) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cdh5 (NM_009868) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdh5
Synonyms:	7B4; AA408225; Cd144; VE; VE-C; VE-Cad; Vec; VEcad; VECD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR210637 representing NM\_009868  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCAGAGGCTCACAGAGCTGGCCACTGCTTTGGGAGCCTTCTGGCCCTCTGGCAGTGGCAGCAATGG  
CAGGCCCTAACCTTCCCCAGATAGACACCCCCAACATGCTACCTGCCACCATCGCCAAAAGAGAGACTG  
GATTTGGAATCAAATGCACATCGATGAAGAGAAAAATGAATCGCTGCCCACTATGTGGAAAGATCAAG  
TCCAACGTGAACCGCCAGAATGCTAAGTATGTGCTCCAAGGAGAGTTTGTGGCAAGATCTTCGGGGTGC  
ATGCTAACACAGGGAATGTGCTTGCCTATGAGAGGCTAGACCGGGAGAAAGTCTCTGAGTACTTCTTAC  
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TCACCATTTGAGACAGACCCCAACGTAACGAGGGTATCATCAAACCCACGAAGTCCCTGGACTATGAAGT  
CATCCAGCAGTACACATTCTACATTGAGGCCACAGACCCCACTATCCGATACGAATACCTGAGCAGCACT  
TCAGGCAAAAACAAGCCATGGTACCATCAACGTCCTAGATGTGGATGAGCCCCCTGTCTTCCAGCGAC  
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TGACAAGGCTCAGCGCAGCATCGGGTACTCCATCCGCAAGACCAGTACAGAGGCCAATTTCCGAATA  
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GCCAGGGCAAGCTGGTAGTACAGATCTCTGCAACAGACAAGGATGTGGTGCAGTAAACCCAAAGTTCA  
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CATAGCAAGAGTGCCTGGAGATTACGAGCAGTTGGTCACTTACGATGAGGAGGGCGGTGGTGGAGATGG  
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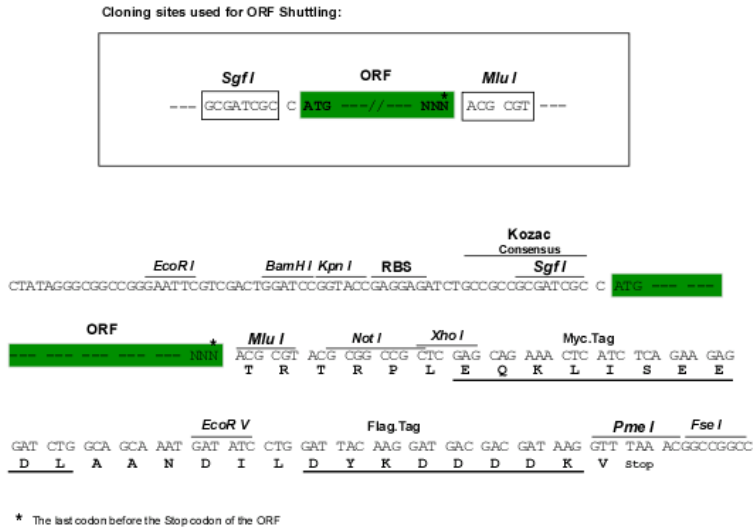
Protein Sequence: >MR210637 representing NM\_009868  
Red=Cloning site Green=Tags(s)

MQRLTELATALGAFLGLLAVAAMAGPNFPQIDTPNMLPAHHRQKRDWIWNQMHI DEEKNESLPHYVGKIK  
SNVNRQNAKYVLQGEFAGKIFGVDANTGNVLAYERLDREKVSEYFLTALIVDKNTNKNLEQPSSTVKVH  
DINDNWPVFSHQVFNASVPEMSAIGTSVIRVTAVDADDPTVAGHATVLYQIVKGNFYFSIDNSGLIFTKI  
KNLDREKQAEYKIVVETQDALGLRGESGTATVMIRLEDINDNFPVFTQSTYTFVSPEDIRVGKPLGFLT  
VDPDEPQNRMTKYSIMQGEYRDTFTIETDPKRNEGIKPTKSLDYEVIIQQYTFYIEATDPTIRYEYLSST  
SGKNKAMVTINVLVDPEPPVFQRHFYHFKLPENQKKPLIGTVVAKDPDKAQRSIGYSIRKTSDRGQFFRI  
TKQGNIIYNEKELDRETYAWYNLTVEANELDSRGNPVGKESIVQVYIEVLDENDNPPEFAQPYEPKVCENA  
AQGKLVVQISATDKDVVPVNPFKFKALKNEDSNFTLINNHDNTANITVKYGFNREHAKFHLYPVLISDN  
GVPSLTGTSTLTVGVCKCNEQGEFTFCEEMAAQAGVSIQALVAIFLCILITITVITLLIILRRRIRKQAHA  
HSKSALEIHEQLVTYDEEGGEMDTTSYDVSVLNSVRGGSTKPLRSTMDARPAVYTQVQKPPRLAPGLHG  
GPREMATMIDVKKEEADNDGGPPYDTLHIYGYEGAESIAESLSSLSTNSSDSDIDYDFLNDWGPRFKML  
AELYGSDPQEELII

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM\_009868

ORF Size: 2352 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\\_009868.4](#), [NP\\_033998.2](#)

**RefSeq Size:** 4004 bp

**RefSeq ORF:** 2355 bp

**Locus ID:** 12562

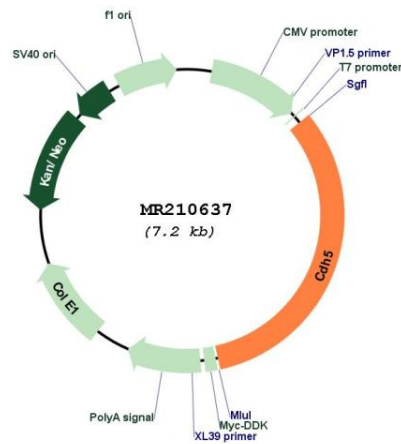
**UniProt ID:** [P55284](#)

**Cytogenetics:** 8 53.04 cM

**MW:** 88.4 kDa

**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. Mice lacking the encoded protein die in utero due to vascular insufficiency, caused by increased endothelial apoptosis. Multiple distinct genes of the cadherin family, including this gene, are found on chromosome 8. [provided by RefSeq, Oct 2015]

## Product images:



Circular map for MR210637