

Product datasheet for **MG210637**

Cdh5 (NM_009868) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdh5 (NM_009868) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cdh5
Synonyms:	7B4; AA408225; Cd144; VE; VE-C; VE-Cad; Vec; VEcad; VECD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MG210637 representing NM_009868
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGAGGCTCACAGAGCTGGCCACTGCTTTGGGAGCCTTCTGGCCCTCTGGCAGTGGCAGCAATGG
CAGGCCCTAACTTTCCCCAGATAGACACCCCAACATGCTACCTGCCACCATCGCCAAAAGAGAGACTG
GATTTGGAATCAAATGCACATCGATGAAGAGAAAAATGAATCGCTGCCCACTATGTGGAAAGATCAAG
TCCAACGTGAACCGCCAGAATGCTAAGTATGTGCTCCAAGGAGAGTTTGTGGCAAGATCTTCGGGGTGC
ATGCTAACACAGGGAATGTGCTTGCCTATGAGAGGCTAGACCGGGAGAAAGTCTCTGAGTACTTCTTAC
TGCCCTCATTGTGGACAAGAACACCAACAAAAACCTGGAACAACCTTCCAGCTTCACTGTCAAGGTGCAT
GATATAAATGACAATTGGCCTGTGTTTTGCACCAGGTATTCAACGCATCTGTGCCAGAGATGTCAGCTA
TAGGGACCTCTGTCATCCGTGTGACAGCAGTGGATGCAGATGACCCCACTGTGGCCGGCCACGCCACTGT
CTTGTACCAAATCGTAAAGGAAATGAGTATTTACAGATTGATAATTCTGGACTATTTTACAAAGATC
AAAAACTTGGACCGAGAGAAACAGGCTGAATACAAGATCGTGGTGGAAACAAGATGCCCTGGGTCTGC
GGGAGAGTCAAGCACAGCCACTGTGATGATCAGACTGGAGGACATCAATGACAACCTTCCCGTCTTTAC
TCAATCCACATACACATTTTCGGTGCCTGAAGACATCCGAGTGGGCAAGCCCTTGGGCTTTCTGACTGTT
GTGGACCCAGATGAGCCTCAGAACCAGTACCAAGTACAGCATCATGCAGGGCAGTACAGGGACACCT
TCACCATTTGAGACAGACCCCAACGTAACGAGGGTATCATCAAACCCACGAAGTCCCTGGACTATGAAGT
CATCCAGCAGTACACATTCTACATTGAGGCCACAGACCCCACTATCCGATACGAATACCTGAGCAGCACT
TCAGGCAAAAACAAGCCATGGTCACCATCAACGTCCTAGATGTGGATGAGCCCCCTGTCTTCCAGCGAC
ACTTCTACCCTTCAAGCTGCCAGAAAACAGAAACCGCTGATCGGCACTGTGGTGGCCAAAGACCC
TGACAAGGCTCAGCGCAGCATCGGGTACTCCATCCGCAAGACCAGTACAGAGGCCAATTTCCGAATA
ACCAAGCAGGAAACATCTATAACGAGAAAGAACTGGACAGAGAAACCTACGCCTGGTATAACCTGACTG
TGGAGGCCAACGAACTGGATTCTCGGGTAACCTGTAGGGAAAGAGTCCATTGTGCAGGTTTACATTGA
AGTCTTGGATGAGAATGACAACCCTCCGGAATTTGCCAGCCCTACGAACCTAAAGTGTGTGAGAATGCT
GCCAGGGCAAGCTGGTAGTACAGATCTCTGCAACAGACAAGGATGTGGTGCAGTAAACCCAAAGTTCA
AGTTTGCCTGAAGAACGAGGACAGCAACTTACCCTCATAAACAACCATGACAACACCGCCAACATCAC
GGTCAAGTATGGCAGTTAATCGGGAGCATGCCAAGTCCACTACCTGCCCGTGTCTCATCTCAGACAAC
GGGGTGCCAGCCTGACTGGAACCAGCAGCTAACCGTGGTGTGTGCAAGTGAACGAGCAGGGCGAGT
TCACCTTCTGTGAGGAGATGGCAGCCCAGGCGGGTGTGAGCATCCAGGCGCTGGTGGCCATCTTCTCTG
CATCTCACCATCACAGTGATTACCTTGTGATCATCCTGCGGAGGCGGATCCGGAAGCAGGCGCATGCT
CATAGCAAGAGTGCCTGGAGATTACAGCAGTGGTCACTTACGATGAGGAGGGCGGTGGTGGAGATGG
ACACCACAGCTATGATGTGTCAGTGTAAATCTGTGCGCGGTGGTCCACTAAGCCCCCTGCGCTCCAC
GATGGACGCCCGCCGCGCAGTGTACACGAGGTGACAGAGCCGCGCGCTGGCGCTGGACTGCACGGA
GGGCCCAGGGAGATGGCCACCATGATCGACGTGAAGAAAGAAGAGGCAGACAATGACGGCGGTGGCCCC
CATACGACACACTGCACATCTACGGCTACGAGGGCGCAGAGTCCATCGCAGAGTCCCTCAGTTCCTGAG
CACCAATTCCTCGACTCTGACATCGATTATGACTTCTCAACGACTGGGGACCCAGGTTCAAGATGCTG
GCTGAGCTGTACGGCTCAGATCCCAGGAGAACTCATCATC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG210637 representing NM_009868
Red=Cloning site Green=Tags(s)

```

MQRLTELATALGAFLGLLAVAAMAGPNFPQIDTPNMLPAHHRQKRDIWNQMHI DEEKNESLPHYVGKIK
SNVNRQNAKYVLQGEFAGKIFGVDANTGNV LAYERLDREKVSEYFLTALIVDKNTNKNLEQPSSTVKVH
DINDNWPVFSHQVFNASVPMSAIGTSVIRVTA VDADDPTVAGHATVLYQIVKGN EYFSIDNSGLIFTKI
KNLDREKQAEYKIVVETQDALGLRGESGTA T VMIRLEDINDNFPVFTQSTYTF SVPEDIRV GKPLGFLT V
VDPDEPQNRMTKYSIMQGEYRDTFTIETDPKR NEGI IKPTKSLDYEV IQQYTFYIEATDPTIRYEYLSST
SGKNKAMVTINVL DVDEPPVFQRHFYHFKL PENQKKPLIGTVVAKDPDKAQR SIGYSIRKTS DRGQFFRI
TKQGN IYNEKELDRETYAWYNLTVEANEL DSRGNPVGKESIVQVYIEVLDENDNPPEFAQPYEPKVCENA
AQGKLVVQISATDKDVVPVNP KFKFALKNEDSNFTL INNHNTANITVKYGFNREHAKFH YLPVLI SDN
GVPSLTGTSTLTVGVCKCNEQGEFTFCEEMAAQAGVSIQALVAIFLCIL TITVITLLIILRRRIRKQAHA
HKSAL EIQHQLVTYDEEGGEMDTT SYDVSVLNSVRGGSTKPLRSTMDARPAVYTQVQKPPRLAPGLHG
GPREMAT MIDVKKEADNDGGGPPYDTLHIYGYEGAESIAESLSSLSTNSSDSDIDYDFLNDWGPRFKML
AELYGSDPQEELII
    
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_009868

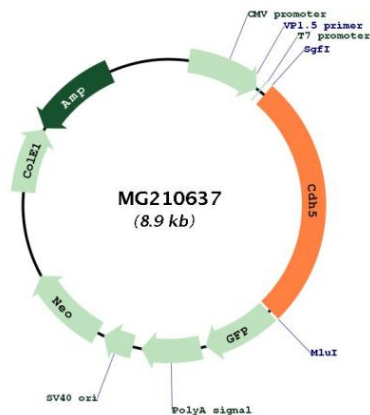
ORF Size: 2352 bp

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
- 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 MG210637