

## Product datasheet for **MG225628**

### **Cdh11 (NM\_009866) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cdh11 (NM_009866) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cdh11
Synonyms:	Cad1; Cad11; OB-cad; OSF-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>MG225628 representing NM\_009866  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGAAGGAGAACTACTGTTTACAAGCTGCCTGGTGTGCCTGAGCATGCTATACCACAGCCAGGCGTTTG  
CTCTGGAGCGACGAAGCCACCTGCATCCCTCTTTCCATGGACACCATGAGAAGGGCAAGGAGGGGAGGT  
GCTGCAACGCTCCAAGAGAGGCTGGGTCTGGAACCAATCTTTGTGATAGAAGAGTACACCGGGCCTGAC  
CCTGTGCTGGTGGCAGGCTTCATTCTGACATTGACTCCGGTGTGGAAACATTAATACATTCTCTCAG  
GTGAAGGAGCGGGAACATTTTTGTGATTGATGACAAATCAGGGAACATTCATGCCACCAAGACATTGGA  
CCGAGAGGAGAGAGCCAGTACACACTGATGGCTCAGGCGGTGGACAGGGACACCAACAGACCACTGGAG  
CCACCTTCAGAATTCATTGTTAAGGTCCAGGACATTAATGACAACCTCCAGAGTTTCTGCATGAAATCT  
ATCATGCCAATGTGCCTGAGAGGTCCAATGTGGGAACATCAGTTATCCAAGTGACAGCCTCTGATGCAGA  
TGATCCCACCTATGGAAATAGTGCCAAGTTAGTGTATAGCATCCTTGAAGGACAACCTATTTCTCGGTG  
GAGGCCAAACAGGTATCATCAGGACAGCCCTTCCAATATGGACAGAGAAGCCAAGGAGGAGTACCACG  
TGGTGATCCAGGCCAAGGACATGGTGGACACATGGTGGACTCTCAGGGACAACCAAAGTGACGATCAC  
TCTGACTGATGTCAACGACAACCCACAAAGTTTCCACAGAGCGTGTACCAGATGTCTGTATCAGAAGCA  
GCTGTCCCGGGGAGGAAGTAGGAAGGGTGAAGGCTAAAGACCCAGACATTGGAGAAAAATGGCTTAGTCA  
CATACAATATCGTTGATGGAGACGGCATAGAATGTTTGAATTAACAACAGACTATGAAACACAGGATGG  
TGTGGTGAAGTGAAAAAGCCTGTAGATTTTGAACCAAAAGAGCTTATAGCTTGAAGATAGAGGCCGCC  
AATGTTACATTGATCCGAAGTTCATCAGCAATGGACCTTCAAGGACACTGTGACCGTCAAGATTTAG  
TAGAAGATGCCGATGAGCCTCCCATGTTCTTGGCCCAAGTTATATCCATGAAGTTCAAGAAAAATGCAG  
TGCTGGCACTGTGGTTGGGAGAGTACATGCCAAAGACCCAGATGCTGCCAACAGCCCAATAAGGTATTCA  
ATTGATCGTCATACTGACCTCGACAGGTTTTTTCACGATTAATCCAGAAGATGGTTTTATTAATAACTACGA  
AACCTCTAGATAGGGAAGAACTGCCTGGCTCAACATCTCTGTCTTCGCAGCAGAAATTCACAACAGACA  
TCAGGAAACCAAAGTCCCAGTGGCCATCAGGGTCTGGATGTCAATGACAATGCTCCTAAGTTTGTGCTGCC  
CCTTATGAAGGTTTTATCTGTGAGAGCGATCACCCCAAGGCACTCTCAACCAGCCAATAGTTACAGTTA  
GTGCAGATGACCAGGACGACACAGCCAATGGACCAAGATTTATCTTCAGCCTACCCCTGAAATCATGCA  
CAACCCAACTTCACAGTAAGAGACAACAGAGATAAACTGCAGGAGTATATGCCCGACGTGGAGGGTTC  
AGTCGGCAGAAGCAGGACTTCTACCTCCTGCCATTGTGATCAGTGTGGTGGCATTCCACCTATGAGTA  
GCACCAATACCCTCACTATCAAAGTCTGTGGCTGTGATGTGAATGGGGCACTGTTGTCTGTAACGCTGA  
AGCCTACATCCTGAATGCCGGTCTGAGCACTGGGGCACTGATCGCCATCCTTGCCTGCATCGTCATTCTT  
CTGGTCATCGTTGTGCTGTTTGTACCCTGAGGAGGCAAAAGAAAGAACCACTCATTGTATTTGAAGAGG  
AGGATGTCCGTGAGAACATCATAACCTATGATGATGAAGGGGGTGGTGGAGGAGACTGAAGCCTTCGA  
CATAGCCACCCTGCAGAACTCTGACGGCATCAATGGATTTATCCCTCGCAAAGATATCAAACCTGAGTAT  
CAGTATATGCCTAGACCTGGGCTGCGACCAGCACCAACAGTGTGGATGTGGACGACTTCATCAACACAA  
GAATACAGGAGGCAGATAATGATCCCACAGCCCCCTCCCTATGACTCCATCCAATCTATGGTTATGAGGG  
CCGGGGTTCGGTGGCTGGTCCCTGAGCTCCTTGGAGTCTGCCACGACAGACTCAGACCTGGACTACGAC  
TATCTACAGAACTGGGGACCTCGTTTTAAGAACTGGCAGACTTGTATGGCTCCAAGACACTTTTGATG  
ATGACTCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG225628 representing NM\_009866  
Red=Cloning site Green=Tags(s)

MKENYCLQAALVCLSMLYHSQAFALERRSHLHPSFHGHHEKGEQVLQRSKRGWVWNQFFVIEEYTGPD  
PVLVGRHLHSDIDSGDGNIKYILSGEGAGTIFVIDDKSGNIHATKTLDREERAQYTLMAQAVDRDTNRPLE  
PPSEFIVKVDINDNPPEFLHEIYHANVPERSNVGTSVIQVTSADADDPTYGNSAKLVYSILEGQPYFSV  
EAQTGIIRTPALPNMDREAKEEYHVVIQAKDMGGHMGGLSGTTKVTITLTDVNDNPPKFPQSVYQMSVSEA  
AVPGEEVGRVKAKDPDIENGLVTYNIVDGDIELFEITTDYETQDGVVKKKPVDFETKRAYSLKIEAA  
NVHIDPKFISNGPFKDTVTKISVEDADEPPMFLAPSYIHEVQENAAAAGTVVGRVHAKDPAANSPIRYS  
IDRHTDLDRFFTINPEDGFIKTTKPLDREETAWLNISVFAAEIHNHRHETKVPVAIRVLDVNDNAPKFAA  
PYEGFICESDHPKALSNQPIVTVSADDQDDTANGPRFIFSLPPEIMHNPNTVRDNRDNTAGVYARRGGF  
SRQKQDFYLLPIVISDGGIPPMSSNTLTIKVCDCVNGALLSCNAEAYILNAGLSTGALIAILACIVIL  
LVIVVLFVTLRRQKKEPLIVFEEEDVRENIITYDDEGGGEEDTEAFDIATLQNPDGINGFIPRKDIKPEY  
QYMPRPGLRPAPNSVDVDDFINTRIQEADNDPTAPPYDSIQIYGYEGRGSVAGSLSSLESATTDSDLDYD  
YLQNWGPRFKKLADLYGSKDTFDDDS

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



**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\\_009866.5](#)

**RefSeq Size:** 4216 bp

**RefSeq ORF:** 2391 bp

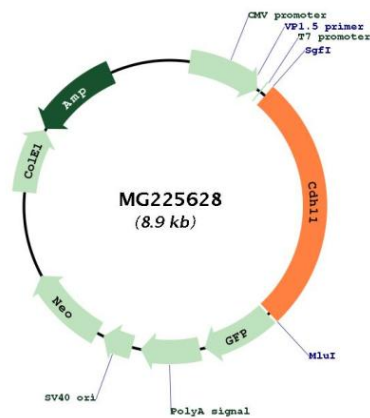
**Locus ID:** 12552

**UniProt ID:** [P55288](#)

**Cytogenetics:** 8 50.44 cM

**Gene Summary:** This gene encodes a type II classical cadherin and preproprotein that is proteolytically processed to generate a mature protein product. This protein product is an integral membrane protein that mediates calcium-dependent cell-cell adhesion, specifically in the context of bone development. Homozygous knockout mice for this gene exhibit impaired synovium development and reduced bone density. Multiple pseudogenes of this gene have been identified in the genome. [provided by RefSeq, Aug 2015]

## Product images:



Circular map for MG225628