

Product datasheet for **RC203810**

OB Cadherin (CDH11) (NM_001797) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OB Cadherin (CDH11) (NM_001797) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OB Cadherin
Synonyms:	CAD11; CDHOB; ESWS; OB; OSF-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC203810 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGGAGAACTACTGTTTACAAGCCGCCTGGTGTGCCTGGGCATGCTGTGCCACAGCCATGCCTTTG
 CCCAGAGCGGGCGGGCACCTGCGGCCCTCCTCCATGGGCACCATGAGAAGGGCAAGGAGGGGCAGGT
 GCTACAGCGCTCCAAGCGTGGCTGGGTCTGGAACCAAGTCTTCGTGATAGAGGAGTACACCGGGCCTGAC
 CCCGTGCTTGTGGGCAGGCTTCATTAGATATTGACTCTGGTGTGGAAACATTAATACATTCTCTCAG
 GGAAGGAGCTGGAACATTTTTGTGATTGATGACAAATCAGGGAACATTCATGCCACCAAGACGTTGGA
 TCGAGAAGAGAGAGCCAGTACACGTTGATGGCTCAGGCGGTGGACAGGGACCAATCGGCCACTGGAG
 CCACCGTCGGAATTCATTGTCAAGGTCCAGGACATTAATGACAACCTCCGGAGTTCCTGCACGAGACCT
 ATCATGCCAACGTGCCTGAGAGGTCCAATGTGGGAACGTCAGTAATCCAGGTGACAGCTTCAGATGCAGA
 TGACCCCACTTATGGAATAGCGCAAGTTAGTGTACAGTATCCTCGAAGGACAACCTATTTTTCGGTG
 GAAGCACAGACAGGTATCATCAGAACAGCCCTACCCAACATGGACAGGGAGGCCAAGGAGGAGTACCACG
 TGGTGATCCAGGCCAAGGACATGGTGGACATATGGGCGGACTCTCAGGGACAACCAAAGTGATGATCAC
 ACTGACCGATGTCAATGACAACCCACAAAGTTTTCCGAGAGCGTATACCAGATGTCTGTGTGAGAAGCA
 GCCGTCCCTGGGAGGAAGTAGGAAGAGTGAAAGCTAAAGATCCAGACATTGGAGAAAATGGCTTAGTCA
 CATACAATATTGTTGATGGAGATGGTATGGAATCATTTGAAATCACAAACGGACTATGAAACACAGGAGGG
 GGTGATAAAGCTGAAAAGCCTGTAGATTTTGAACAAAAGAGCCTATAGCTTGAAGGTAGAGGCGCC
 AACGTGCACATCGACCCGAAGTTTATCAGCAATGGCCCTTCAAGGACACTGTGACCGTCAAGATCGCAG
 TAGAAGATGCTGATGAGCCCCCTATGTTCTTGGCCCCAAGTTACATCCACGAAGTCCAAGAAAATGCAGC
 TGCTGGCACCGTGGTGGGAGAGTGCATGCCAAAGACCCTGATGCTGCCAACAGCCCGATAAGGTATTCC
 ATCGATCGTCACACTGACCTCGACAGATTTTTACTATTAATCCAGAGGATGGTTTTATTAATAACTACAA
 AACCTCTGGATAGAGAGGAAACAGCCTGGCTCAACATCACTGTCTTTGCAGCAGAAAATCCACAATCGGCA
 TCAGGAAGCCAAAGTCCCAGTGGCCATTAGGGTCTTGATGTCAACGATAATGCTCCCAAGTTTGTCTGCC
 CCTTATGAAGTTTTCATCTGTGAGAGTGTGACACCAAGCCACTTTCCAACCAGCCAATTGTTACAATTA
 GTGCAGATGACAAGGATGACACGGCCAATGGACCAAGATTTATCTTCAGCCTACCCCTGAAATCATTCA
 CAATCAAATTTACAGTCAGAGACAACCGAGATAACACAGCAGGCGTGTACGCCCGCGTGGAGGGTTC
 AGTCGGCAGAAGCAGGACTTGTACCTTCTGCCATAGTGATCAGCGATGGCGGCATCCCGCCATGAGTA
 GCACCAACACCCTCACCATCAAAGTCTGCGGGTGCAGCTGAACGGGGCACTGCTCTCCTGCAACGCAGA
 GGCTACATTCTGAACCGCGCCTGAGCACAGGCGCCCTGATCGCCATCCTCGCCTGCATCGTCATTCTC
 CTGGTCATTGTAGTATTGTTGTGACCCCTGAGAAGGCAAAAGAAAGAACCACTCATTGTCTTTGAGGAAG
 AAGATGTCCTGTGAGAATCATTACTTATGATGATGAAGGGGGTGGGGAAGAAGACAGAAAGCCTTTGA
 TATTGCCACCCTCAGAATCCTGATGGTATCAATGGATTTATCCCCGCAAGACATCAAACCTGAGTAT
 CAGTACATGCCTAGACCTGGGCTCCGGCCAGCGCCCAACAGCGTGGATGTCGATGACTTCATCAACCGA
 GAATACAGGAGGCAGACAATGACCCACGGCTCCTCCTTATGACTCCATTCAAATCTACGGTTATGAAGG
 CAGGGGCTCAGTGGCCGGTCCCTGAGCTCCCTAGAGTCGGCCACCACAGATTGAGACTTGGACTATGAT
 TATCTACAGAACTGGGGACCTCGTTTTAAGAACTAGCAGATTTGTATGGTTCCAAGACACTTTTGATG
 ACGATTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC203810 protein sequence
Red=Cloning site Green=Tags(s)

MKENYCLQAALVCLGMLCHSHAFAPERRGHLRPSFHGHHEKGKEGQVLQRSKRGWVWNQFFVIEEYTGPD
PVLVGR LHSDIDSGDGNIKYILSGEGAGTIFVIDDKSGNIHATKTL DREERAQYTLMAQAVDRDTNRPLE
PPSEFIVKVQDINDNPPEFLHETYHANVPERSNVGTSVIQVTASDADDPTYGNSAKLVYSILEGQPYFSV
EAQTGIIR TALPNMDREAKEEYHVVIQAKDMGGHMGGLSGTTKVMITLTDVNDNPPKFPQSVYQMSVSEA
AVPGEEVGRVKAKDPDIENGLVTYNIVDGDMESFEITTDYETQEGVIKLLKPVDFETKRAYSLKVEAA
NVHIDPKFISNGPFKDTVTVKIAVEDADEPPMFLAPSYIHEVQENAAAAGTVVGRVHAKDPAANSPIRYS
IDRHTDLDRFFTINPEDGFIKTTKPLDREETAWLNITVFAAEIHNHRHQEAKVPVAIRVLDVNDNAPKFAA
PYEGFICESDQTKPLSNQPIVTISADDKDDTANGPRFIFSLPPEIIHNPNFTVRDNRDNTAGVYARRGGF
SRQKQDLYLLPIVISDGGIPPMSSNTLTIKVC GCDVNGALLSCNAEAYILNAGLSTGAL IAILACIVIL
LVIVVLFVTLRRQKKEPLIVFEEEDVRENIITYDDEGGGEEDTEAFDIATLQNP DGINGFIPRKDIKPEY
QYMPRPGLRPAPNSVDVDDFINTRIQEADNDPTAPPYDSIQIYGYEGRGSVAGSLSSLESATTDSDLDYD
YLQNWGPRFKKLADLYGSKDTFDDDS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6202_b02.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001797

ORF Size: 2388 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001797.4](#)

RefSeq Size: 3654 bp

RefSeq ORF: 2391 bp

Locus ID: 1009

UniProt ID: [P55287](#)

Cytogenetics: 16q21

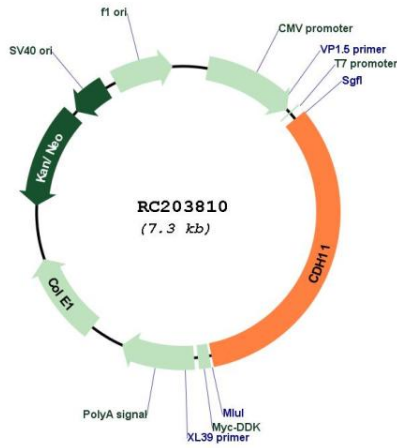
Domains: Cadherin_C_term, CA

Protein Families: Druggable Genome, Transmembrane

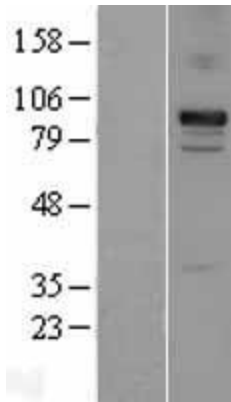
MW: 88 kDa

Gene Summary: This gene encodes a type II classical cadherin from the cadherin superfamily, integral membrane proteins that mediate calcium-dependent cell-cell adhesion. Mature cadherin proteins are composed of a large N-terminal extracellular domain, a single membrane-spanning domain, and a small, highly conserved C-terminal cytoplasmic domain. Type II (atypical) cadherins are defined based on their lack of a HAV cell adhesion recognition sequence specific to type I cadherins. Expression of this particular cadherin in osteoblastic cell lines, and its upregulation during differentiation, suggests a specific function in bone development and maintenance. [provided by RefSeq, Jul 2008]

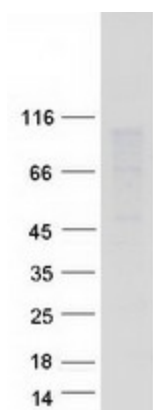
Product images:



Circular map for RC203810



Western blot validation of overexpression lysate (Cat# [LY400681]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203810 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CDH11 protein (Cat# [TP303810]). The protein was produced from HEK293T cells transfected with CDH11 cDNA clone (Cat# RC203810) using MegaTran 2.0 (Cat# [TT210002]).