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# Product datasheet for SC119023

## OB Cadherin (CDH11) (NM_001797) Human Untagged Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | OB Cadherin (CDH11) (NM_001797) Human Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | OB Cadherin |
| **Synonyms:** | CAD11; CDHOB; ESWS; OB; OSF-4 |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pCMV6-XL5 |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

**Fully Sequenced ORF:**

>OriGene sequence for NM_001797 edited
GAATCGGCACGAGGGTCAAGAAAAACGCGGGCGGGCAGGCCGAAGAGGAAATCACTGTGT
TTTCAGCTCAGCGGCCCTGTGACATTCCTTCGTGTTGTCATTTGTTGAGTGACCAATCAG
ATGGGTGGAGTGTGTTACAGAAATTGGCAGCAAGTATCCAATGGGTGAAGAAGAAGCTAA
CTGGGGACGTGGGCAGCCCTGACGTGATGAGCTCAACCAGCAGAGACATTCCATCCCAAG
AGAGGTCTGCGTGACGCGTCCGGGAGGCCACCCTCAGCAAGACCACCGTACAGTTGGTGG
AAGGGGTGACAGCTGCATTCTCCTGTGCCTACCACGTAACCAAAAATGAAGGAGAACTAC
TGTTTACAAGCCGCCCTGGTGTGCCTGGGCATGCTGTGCCACAGCCATGCCTTTGCCCCA
GAGCGGCGGGGGCACCTGCGGCCTTCCTTCCATGGGCACCATGAGAAGGGCAAGGAGGGG
CAGGTGCTACAGCGCTCCAAGCGTGGCTGGGTCTGGAACCAGTTCTTCGTGATAGAGGAG
TACACCGGGCCTGACCCCGTGCTTGTGGGCAGGCTTCATTCAGATATTGACTCTGGTGAT
GGGAACATTAAATACATTCTCTCAGGGGAAGGAGCTGGAACCATTTTTGTGATTGATGAC
AAATCAGGGAACATTCATGCCACCAAGACGTTGGATCGAGAAGAGAGAGCCCAGTACACG
TTGATGGCTCAGGCGGTGGACAGGGACACCAATCGGCCACTGGAGCCACCGTCGGAATTC
ATTGTCAAGGTCCAGGACATTAATGACAACCCTCCGGAGTTCCTGCACGAGACCTATCAT
GCCAACGTGCCTGAGAGGTCCAATGTGGGAACGTCAGTAATCCAGGTGACAGCTTCAGAT
GCAGATGACCCCACTTATGGAAATAGCGCCAAGTTAGTGTACAGTATCCTCGAAGGACAA
CCCTATTTTTCGGTGGAAGCACAGACAGGTATCATCAGAACAGCCCTACCCAACATGGAC
AGGGAGGCCAAGGAGGAGTACCACGTGGTGATCCAGGCCAAGGACATGGGTGGACATATG
GGCGGACTCTCAGGGACAACCAAAGTGATGATCACACTGACCGATGTCAATGACAACCCA
CCAAAGTTTCCGCAGAGCGTATACCAGATGTCTGTGTCAGAAGCAGCCGTCCCTGGGGAG
GAAGTAGGAAGAGTGAAAGCTAAAGATCCAGACATTGGAGAAAATGGCTTAGTCACATAC
AATATTGTTGATGGAGATGGTATGGAATCATTTGAAATCACAACGGACTATGAAACACAG
GAGGGGGTGATAAAGCTGAAAAAGCCTGTAGATTTTGAAACCAAAAGAGCCTATAGCTTG
AAGGTAGAGGCAGCCAACGTGCACATCGACCCGAAGTTTATCAGCAATGGCCCTTTCAAG
GACACTGTGACCGTCAAGATCGCAGTAGAAGATGCTGATGAGCCCCCTATGTTCTTGGCC
CCAAGTTACATCCACGAAGTCCAAGAAAATGCAGCTGCTGGCACCGTGGTTGGGAGAGTG



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CATGCCAAAGACCCTGATGCTGCCAACAGCCCGATAAGGTATTCCATCGATCGTCACACT
GACCTCGACAGATTTTTCACTATTAATCCAGAGGATGGTTTTATTAAAACTACAAAACCT
CTGGATAGAGAGGAAACAGCCTGGCTCAACATCACTGTCTTTGCAGCAGAAATCCACAAT
CGGCATCAGGAAGCCAAAGTCCCAGTGGCCATTAGGGTCCTTGATGTCAACGATAATGCT
CCCAAGTTTGCTGCCCCTTATGAAGGTTTCATCTGTGAGAGTGATCAGACCAAGCCACTT
TCCAACCAGCCAATTGTTACAATTAGTGCAGATGACAAGGATGACACGGCCAATGGACCA
AGATTTATCTTCAGCCTACCCCCTGAAATCATTCACAATCCAAATTTCACAGTCAGAGAC
AACCGAGATAACACAGCAGGCGTGTACGCCCGGCGTGGAGGGTTCAGTCGGCAGAAGCAG
GACTTGTACCTTCTGCCCATAGTGATCAGCGATGGCGGCATCCCGCCCATGAGTAGCACC
AACACCCTCACCATCAAAGTCTGCGGGTGCGACGTGAACGGGGCACTGCTCTCCTGCAAC
GCAGAGGCCTACATTCTGAACGCCGGCCTGAGCACAGGCGCCCTGATCGCCATCCTCGCC
TGCATCGTCATTCTCCTGGTCATTGTAGTATTGTTTGTGACCCTGAGAAGGCAAAAGAAA
GAACCACTCATTGTCTTTGAGGAAGAAGATGTCCGTGAGAACATCATTACTTATGATGAT
GAAGGGGGTGGGGAAGAAGACACAGAAGCCTTTGATATTGCCACCCTCCAGAATCCTGAT
GGTATCAATGGATTTATCCCCCGCAAAGACATCAAACCTGAGTATCAGTACATGCCTAGA
CCTGGGCTCCGGCCAGCGCCCAACAGCGTGGATGTCGATGACTTCATCAACACGAGAATA
CAGGAGGCAGACAATGACCCCACGGCTCCTCCTTATGACTCCATTCAAATCTACGGTTAT
GAAGGCAGGGGCTCAGTGGCCGGGTCCCTGAGCTCCCTAGAGTCGGCCACCACAGATTCA
GACTTGGACTATGATTATCTACAGAACTGGGGACCTCGTTTTAAGAAACTAGCAGATTTG
TATGGTTCCAAAGACACTTTTGATGACGATTCTTAACAATAACGATACAAATTTGGCCTT
AAGAACTGTGTCTGGCGTTCTCAAGAATCTAGAAGATGTGTAAACAGGTATTTTTTTAAA
TCAAGGAAAGGCTCATTTAAAACAGGCAAAGTTTTACAGAGAGGATACATTTAATAAAAC
TGCGAGGACATCAAAGTGGTAAATACTGTGAAATACCTTTTCTCACAAAAAGGCAAATAT
TGAAGTTGTTTATCAACTTCGCTAGAAAAAAAAAACACTTGGCATACAAAATATTTAAGT
GAAGGAGAAGTCTAACGCTGAACTGACAATGAAGGGAAATTGTTTATGTGTTATGAACAT
CCAAGTCTTTCTTCTTTTTTAAGTTGTCAAAGAAGCTTCCACAAAATTAGAAAGGACAAC
AGTTCTGAGCTGTAATTTCGCCTTAAACTCTGGACACTCTATATGTAGTGCATTTTTAAA
CTTGAAATATATAATATTCAGCCAGCTTAAACCCATACAATGTATGTACAATACAATGTA
CAATTATGTCTCTTGAGCATCAATCTTGTTACTGCTGATTCTTGTAAATCTTTTTGCTTC
TACTTTCATCTTAAACTAATACGTGCCAGATATAACTGTCTTGTTTCAGTGAGAGACGCC
CTATTTCTATGTCATTTTTAATGTATCTATTTGTACAATTTTAAAGTTCTTATTTTAGTA
TACATATAAATATCAGTATTCTGACATGTAAGAAAATGTTACGGCATCACACTTATATTT
TATGAACATTGTACTGTTGCTTTAATATGAGCTTCAATATAAGAAGCAATCTTTGAAATA
AAAAAAGATTTTTTTTTAAAAAAAAAAAAAAAAAAACTCGAC

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM_001797 unedited
CCTGAAATTTGATAATACCACTTTCTGATAGGGCGGCACACNACATCGCACGAGGGTCAA
GAAAAATCGGGCGGGCAGGCCGAAGAGGAAATCACTGTGTTTTCAGCTCAGCGGCCCTGT
GACATTCCTTCGTGTTGTCATTTGTTGAGTGACCAATCAGATGGGTGGAGTGTGTTACAG
AAATTGGCAGCAAGTATCCAATGGGTGAAGAAGAAGCTTTCTGGGGACGTGGGCAGCCCT
GACGTGATGAGCTCAACCAGCAGAGACATTCCATCCCAAGAGAGGTCTGCGTGACGCGTC
CGGGAGGCCACCCTCAGCAAGACCACCGTACAGTTGGTGGAAGGGGTGACAGCTGCATTC
TCCTGTGCCTACCACGTAACCAAAAATGAAGGAGAACTACTGTTTACAAGCCGCCCTGGT
GTGCCTGGGCATGCTGTGCCACAGCCATGCCTTTGCCCCAGAGCGGCGGGGGCACCTGCG
GCCTTCCTTCCATGGGCACCATGAGAAGGGCAAGGAGGGGCAGGTGCTACAGCGCTCCAA
GCGTGGCTGGGTCTGGAACCAGTTCTTCGTGATAGAGGAGTACACCGGGCCTGACCCCGT
GCTTGTGGGCAGGCTTCATTCAGATATTGACTCTGGTGATGGGAACATTAAATACATTCT
CTCAGGNGAAGGAGCTGGAACCATTTTTGTGATTGATGAACAATCANGGAACATTCATGC
CACCAAGACGTTGGATCGAGAAGAGAGAGCCCAGTACACGTTGATGGCTCANGCGGTGGA
CAGGGACCCAATCGGCCACTGGAGCCACCGTNCGAATTCATTTGTCAGGTCCAGNACATT
AATGACNACCCTCCGAAGTTTCTGCACGAGAACTATCATGCCNACGTTGCCTGAAAGGTC
CATGTGGGAACGTCAGTAATCCAAGTGGAAGCCTCAGATA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM_001797 unedited
GGCACGCAATCTAGTATCGAGTTTTTTTTTTTTTTTTTAAAAAAAATCTTTTTTTATTT
CAAAGATTGCTTCTTATATTGAAGCTCATATTAAAGCAACAGTACAATGTTCATAAAATA
TAAGTGTGATGCCGTAACATTTTCTTACATGTCATAATACTGATATTTATATGTATACTA
AAATAAGAACTTTAAAATTGTACAAATAGATACATTAAAAATGACATAGAAATAGGGCGT
CTCTCACTGAAACAAGACAGTTATATCTGCCACGTATTAGTTTAAGATGAAAGTACAAGC
AAAAAGATTTACAAGAATCAGCAGTAACAAGATTGATGCTCAAGAGACATAATTGTACAT
TGTATTGAACATACATTGTATGGGTTTAACCTGGCTGAATATTATTATATTGCAAGTTTA
AAAATGCACTACATATACAGTGTTCAGAGCTTAACGCCAAATTACAGCTCACAACCTGCG
CACTTTATAATAATGTGGAAACTTCTTTGCCACCTTATAATATATTAAAGATTTGCATGC
CTGTTATCACTTCTCTTTTTCCTTCTTTGTCCCTCCATCCTCTATTTTATTCCTCCCTTT
CATCTCATTCGTGGATTGCGGCTTCTTCTTTTCAACCTATGTCTTTATAATCTCTCTCCC
CCTCCAATTCCCCCACCCGCTCCTTCTTCTATAACTCTCACTTTCTCCTATATATTTTTC
CCCTCGCCTTTGTTTCTGAGTATCCATTCTCCCGACCCCATCTCGTTCTCTACTAACCTT
TCATCCTTTCATACCGCACTCTCCTTATTTCCGTCCTCTTTCTCATCCCTCATCTTATTT
TCCACTCTATTTTTCTATTCTCTCGTTTCTACCCCTCCCCCCCTCTTCTTTTTTTTATTT
ATACTTCCCACCTACCCCTCGCCCCGACCAACCATTTCATTTTTCTTCTTTCTTATACCC
ATTCACN

**Restriction Sites:** NotI-NotI

**ACCN:** NM_001797

**Insert Size:** 3520 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 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:** NM_001797.2, NP_001788.2

| | |
|---|---|
| **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 |
| **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]<br>Transcript Variant: This variant (1) encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments. |