

Product datasheet for **SC308991**

Cadherin 7 (CDH7) (NM_004361) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cadherin 7 (CDH7) (NM_004361) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cadherin 7
Synonyms:	CDH7L1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_004361 edited
ATGAAGTTGGGCAAAGTGGAGTTCTGCCATTTTCTGCAGCTAATAGCTCTTTTCCTGTGT
TTTTCTGGGATGAGTCAAGCAGAAGTCTCAAGGTCCAGATCAAAGCCCTATTTCCAATCA
GGGAGGTCCCGGACCAAGCGCAGCTGGGTGTGGAATCAGTTCTTTGTGCTGGAGGAATAC
ATGGGTTCCAGACCCCTCTATGTAGGAAAGTTCACCTGATGTTGATAAAGGAGATGGT
TCCATCAAATACATCTTGTCCAGGCAAGGGCAAGTTCATTTTCATTATTGATGAGAAC
ACTGGGATATTCATGCCACCAAGAGACTGGATCGTGAGGAGCAGGCTACTACACGCTC
CGAGCTCAAGCGCTGGATAGGCTCACCAACAACCCGTTGGAGCCCGAGTCGGAGTTTGTG
ATCAAAATTCAGGATATCAACGACAATGAACCCAAATTTTGGATGGCCATACACGGCA
GGAGTTCCCGAAATGTCTCCCGTGGGGACCTCAGTGGTACAAGTACAGCGACGGATGCT
GATGATCTACATATGGCAACAGTGCCAGAGTGGTCTACAGTATTCTGCAAGGACAGCCG
TACTTCTCAGTGGAGCCAAAGACAGGAGTCATCAAGACTGCCCTTCAAACATGGATAGA
GAGGCTAAAGACCAGTATTTGCTTGTATTTCAGGCAAAGGATATGGTTGGTCAAATGGA
GGACTGTCAGGAACTACATCAGTCACTGTGACCCTAACTGATGTCAACGATAATCCACCT
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GTGGCCAGAATTAAGCTGCTGATGCAGATATTGGAGCTAATGCTGAAATGGAGTACAAG
ATTGTGGATGGTATGGTTTGGGCATTTTAAAGATTTCTGTTGACAAAGAACCAGGAA
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ACGACAAGTGTGAAGATAATTGTGGAAGATGTAGATGAGCCCCCTGTGTTCTCTTACCC
TTGTACCTATGGAGGTGCGGAAGCTACCCAGGTTGGGAATATCATTGGCACTGTAGCA
GCTCATGACCCAGATTCTTCCAATAGCCCTGTGAGGTACTCAATTGACAGAAACACAGAC
TTGGAGAGATACTTCAATATTGATGCCAACAGTGGGGTCATCACAAGTCCCAAGTCTTTG
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TTAACAACGGATGCAACAAATAACCACAAGTCTTTCATTGAAAGATAACAAAGACAACACA
GCCTCAATACTGACCAGGAGAAACGGCTCCGGAGACAGGAACAATCAGTTTACTATCTG
CCAATTTTCATTGTGGACAGTGGATCTCCCTCACTTAGCAGCACCAGCACCTCACCATC
CGCGTGTGTGACTGTGATGCTGACGGCGTAGCCAGACCTGCAATGCAGAGGCCTATGTC
CTACCTGCTGGCCTCAGTACAGGAGCCCTGATAGCCATACTCGCCTGTGTCTTGACATTA
TTGGTGTGATCCTCCTTATCGTCACTATGAGAAGACGGAAAAAAGAGCCCTTATTTTT
GACGAAGAAAGAGACATCAGAGAAAATATTGTGAGATATGATGACGAGGGCGGGGAGAG
GAGGACACGGAAGCGTTTGACATGGCTGCACTGAGAAACCTCAACGTCATCCGAGACACC
AAGACCCGGAGGGATGTGACTCCAGAAATTCATTCCTGAGTCGACCAGCTTTTAAAGC
ATCCCAGATAATGTCATCTTTAGGGAATTTATTTGGGAAAGATTAAGAAGCCGATGTT
GATCCTGGTGTCTCCTTATGACTCCCTGCAGACATATGCTTTTGAAGGAAATGGCTCA
GTTGCTGAATCACTCAGCTCTTTAGATTCCATCAGCTCAAACCTGATCAGAAGTATGAC
TACCTAAGTGACTGGGGACCTCGCTTTAAACGACTCGCGGACATGTATGGGACTGGCCAA
GAGAGTTTGTACTCATAG
    
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_004361 unedited NGCGTTCAGATATTTGTAATACGACTTACTATAGGCGGCCGCGCAATTCGCACGAGGCGG AGCTGCGCGCACTGGGTCCCCAAAAGCCCGGGCGTCCGGCAGCCGAGCGCACGTTCTT TCGGATGCACACGCCCGGTCCCTGGCGTCTGACGCCGTGGGAGGGCAGCGAGGCCCA GGTACTTACTACACCATCTTTGGCGAAGGCTATTCAGCAGTGGTACCTCTTCCAATCC AACACTTACAGATTATTATCTCTGGACTCCCAGCTGACACCCCTGCCGGAGGCAAGAGCT ACTAAGCCAACCTGGAACGTGTCCTTTCTTTGTCAGGTTTTTTTCTTACACAGGAAAA AGAAAGAAAAAAAAGATGAAGTTGGGCAAAGTGGAGTTCTGCCATTTTCTGCAGCTAA TAGCTCTTTTCTGTGTTTTCTGGGATGAGTCAAGCAGAAGCTCTCAAGTCCAGATCAA AGCCCTATTTCCAATCAGGGAGGTCCCGGACCAAGCGCAGCTGGGTGTGGAATCAGTTCT TTGTGCTGGAGGAATACATGGGTTCCAGACCCCTCTATGTAGGAAAGCTTCACTCTGATG TTGATAAAGGAGATGGTCCATCAAATACATCTTGTGAGGCAAGGGCAAGTCCATTT TCATTATTGATGAGAACACTGGGATATTCATGCCACCAAGAGACTGGATCGTGAGGAGC AGGCTACTACACGCTNCGAGCTCAAGCGCTGGATAGGCTCACCAACAACCCGTGGAGCC CGAGTTCGAGTTTGTATCAAAAATCAGGATATCAAACGACATGAACCCAAATTTTGGGA TGCCATACACGCAAGAGTTCCCGAAATGTCTCCCGTGGGGACCTCAGTGGTACAAGTG ACAGCGACGGATGCTG</p>
3' Read Nucleotide Sequence:	<p>>Forward primer walk for NM_004361 unedited GTTTTTGCATTGCANCTTGACAACGGAAGNCAACAATAACCACAACCTTNTCATTGAAG AAAACAAAGACAACACAGCCTCATACTGACCAGAGAAACGGCTTCCGGAGACAGGAACAA TCAGTTTACTATCTGCCAATTTTATTGTGGACAGTGGATCTCCCTCACTTAGCAGCACC AGCACCTCACCATCCGGTGTGTGACTGTGATGCTGACGGCGTAGCCAGACCTGCAAT GCAGAGGCCTATGTCTACCTGCTGGCCTCAGTACAGGAGCCCTGATAGCCATACTCGCC TGTGTCTTGACATTATTGGTGTGATCCTCCTTATCGTCACTATGAGAAGACGGAAAAAA GAGCCCTTATTTTTGACGAAGAAAGAGACATCAGAGAAAATATTGTGAGATATGATGAC GAGGGCGGGGAGAGGAGGACACGGAAGCGTTTGACATGGCTGCACTGAGAAACCTCAAC GTCATCCGAGACACCAAGACCCGGAGGGATGTGACTCCAGAAATCAATTCTGAGTCGA CCAGCTTTTAAAGCATCCCAGATAATGCATCTTTAGGGAATTTATTTGGGAAAGATTA AAAGAAGCCGATGTTGATCCTGCTCCTCCTTATGACTCCCTGCAGACATAGCTTTT GAAGGAAATGGCTCAGTTGCTGAATCACTCAGCTCTTTAGATTCCATCAGCTCANACTCT GATCAGAACTATGACTACCTAAGTGACTGGGGACCTCGCTTTAAACGACTCGCGGACATG TATGGGACTGGCCAAGAGAGTTTGTACTCATAGCCTTGGAAAACCTTAATTCGAAATGTAC TGNNAGAAAAGTAACCGCNAAAAATAAATAAATGAAATAAAAATATTAACCACTACCTA CAGGAAACAAGAACTCCCTTGCTC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_004361
Insert Size:	3000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	There is 1 nucleotide difference between the OriGene clone and the NCBI reference ORF. These result in the substitution of 1 aa.
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_004361.2](#), [NP_004352.2](#)

RefSeq Size: 2828 bp

RefSeq ORF: 2358 bp

Locus ID: 1005

UniProt ID: [Q9ULB5](#)

Cytogenetics: 18q22.1

Protein Families: Transmembrane

Gene Summary: This gene encodes a type II classical cadherin of the cadherin superfamily. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature glycoprotein. This calcium dependent cell-cell adhesion molecule is comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. Type II (atypical) cadherins are defined based on their lack of a histidine-alanine-valine (HAV) cell adhesion recognition sequence specific to type I cadherins. Cadherins mediate cell-cell binding in a homophilic manner, contributing to the sorting of heterogeneous cell types. Mutations in this gene may be associated with bipolar disease in human patients. This gene is present in a gene cluster on chromosome 18. [provided by RefSeq, May 2016]

Transcript Variant: This variant (b) represents the longest transcript and encodes the longer isoform (1). Variants a, b and d encode the same 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.