

Product datasheet for **SC115891**

cadherin 10 (CDH10) (NM_006727) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	cadherin 10 (CDH10) (NM_006727) Human Untagged Clone
Tag:	Tag Free
Symbol:	cadherin 10
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC115891 sequence for NM_006727 edited (data generated by NextGen Sequencing)

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ATGACAATACATCAATTTTTGCTACTGTTTCTATTCTGGGTATGCCTGCCACATTTCTGC
TCTCCAGAAATAATGTTTCAGAAGGACGCCTGTGCCACAGCAAAGAATTTAAGTTCACGT
GTACCAAGGAGTGATGGCAAAATCTCCATCGTCAAAAACGTGGTTGGATGTGGAATCAA
TTTTTCTTACTTGAAGAATATACAGGATCTGATTATCAGTACGTAGGCAAGCTACATTCA
GACCAAGATAAAGGAGATGGATCACTCAATATATCTTATCTGGAGATGGAGCTGGTACT
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GAAAAGGCCTTTTATACTCTACGCGCACAGCTATTAACAGAAGAACTCTGAGGCCAGTA
GAGCCAGAGTCAGAGTTTGTGATCAAAATTCATGATATCAATGACAATGAGCCAACGTTT
CCAGAAGAAATCTATACAGCTAGTGTCCCGAAATGTCTGTTGTAGGTACTTCTGTGGT
CAAGTCACAGCTACAGATGCCGATGACCCTTCATATGGGAACAGCGCCAGAGTCATTTAC
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GGTGGTGGAGAGGAGGACACCCAGGCCTTTGATATCGGCACCCTGAGGAATCCTGCAGCC
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ACTCCTACAGCTCCAGATAACACGGACGTCCGGGATTTTATTAATGAAAGGCTAAAAGAG
CATGATCTTGACCCACCGCACCCCTACGACTCACTTGCAACCTATGCCTATGAAGGA
AATGATTCCATTGCTGAATCTCTGAGTTTATTAGAATCAGGTACTACTGAAGGAGACCAA
AACTACGATTACCTCCGAGAATGGGGCCCTCGGTTTAAATAGCTAGCAGAAATGTATGGT
GGTGGGAAAGTGACAAAGACTCTTAA

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Clone variation with respect to NM_006727.3

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_006727 unedited</p> <pre>CGTCAAAATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGNAAAAAGTG AACTATGACAATACATCAATTTTTGCTACTGTTTCTATTCTGGGTATGCCTGCCACATTT CTGCTCTCCAGAAATAATGTTTCAGAAAGGACGCCTGTGCCACAGCAAGAATTTTAAGTTC ACGTGTACCAAGGAGTGATGGCAAAATCTCCATCGTCAAAAACGTGGTTGGATGTGGAA TCAATTTTTCTTACTTGAAGAATATACAGGATCTGATTATCAGTACGTAGGCAAGCTACA TTCAGACCAAGATAAAGGAGATGGATCACTCAAATATATCTTATCTGGAGATGGAGCTGG TACTCTTTTTTATTGATGAAAAAACAGGTGATATTCATGCCACAAGGCGAATTGATAG GGAGGAAAAGGCCTTTTATACTCTACGCGCACAAAGCTATTAACAGAAGAACTCTGAGGCC AGTAGAGCCAGAGTCAGAGTTTGTGATCAAAATTCATGATATCAATGACAATGAGCCAAC GTTCCAGAAAGAAATCTATACAGCTAGTGTCCCGAAATGTCTGTTGTAGTACTTCTGT GGTGAAGTCACAGCTACAGATGCCGATGACCCTTCATATGGGAACAGCGCCAGAGTCAT TTACAGCATACTTCAAGGGCAGCCCTATTTCTCTGTGGAGCCTGAAACANGTATCATCAN GACTGCTTTACCGAACATNGACAGAGAAAACAGAGACNATACCAAGTGGTCATNNCAGC CAAAGACATGGGCGGCCAGATGGGAGGCTTATCGGGGACACCACGTGAACATCACGCTG ACAGATGTCAAATGACACCCACCACGTTTCCCCCAAAACACTATTATCTTCGAGTCTTG AAATCCTCCCAGTTGCACAGCCATTGNAAGTGTCAAAGCACTGATGCTGACCTG</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_006727 unedited</p> <pre>ACCGCGAGCCGCAATCTANAGTCGAGTTTTTTTTTCTTTTTTTAGTTGTA AAAACTGGT TTATTTTTTAAAAATAAATAAAAAATAAAATATAAAACATTAGCAGATAGAATTTGA TGAAATGAAATGCACAAATGTCTGTATACCAGTTGCATATCACACCTACTAACATCAC ATGTACATTTTTGTTTTTAAATTAATGTACAGAACAGGATATTACTGGNAAAATTTT TTCTTACCTTTTTTAAAGCTTCATTTTGCAGGGCAGGACATGTACCTAACAGAAGCCG CTTGTTTGTGAGGTTGCTTAAGGGAAAACATCCTGTTTCATGGTCTGAAATATCTTTTA TTACTAAGATGGACACTGNATTTTCATAACTTTGCCCTGGAAGTGATTAATAAATGT CTTTTTATCCATGAGAATCTACAGGAAAAATAATGTATTAATGACCAATTAGAAGTAA TGAGAAAAAATGGCTGACTGCAAGAAAAGCTCTGAATCAATTTTGGAAAGTGAAACGC CTGGGTAATTAATCTTTTGTGAACCAACATTTTCTACCTAAAATTTGTACCTTCC CACCACATACATTTGGTAGCTATTAACGAGGCCATTCTTGGAGAACGAATTTTGTCC CTTCAAAAACCCGTTTATGACCCCAATTTACATTGGATCTTCCCTTAGGTTAGTTACAG GAATCAAGGGGGCGGGGGGAAAAACGCCTTTTCCCTTCTAAGAAACCCGGCCCGGT TTTTGGCTGTGGACCCTCCGAAAAAACCTTTTGGAAATTTCCGGGGCTTTTTTCCGG GGGGGGAATCCAGGGGCTATAAAGCCGGGGCCCTCCCCCCCCGTTAACCAAGGTGT TTATATTTTTTAAAAAGGCTTTTTTTTTTTTTTAAACCAAAACACT</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_006727
Insert Size:	2900 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).
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_006727.2](#), [NP_006718.2](#)

RefSeq Size: 3261 bp

RefSeq ORF: 2367 bp

Locus ID: 1008

UniProt ID: [Q9Y6N8](#)

Cytogenetics: 5p14.2-p14.1

Domains: Cadherin_C_term, CA

Protein Families: Transmembrane

Gene Summary: This gene encodes a type II classical cadherin of the cadherin superfamily. Alternative splicing of this gene results in multiple transcript variants. At least one of these variants encodes a preproprotein that is proteolytically processed to generate the mature cadherin protein. These integral membrane proteins mediate calcium-dependent cell-cell adhesion and are composed of a large N-terminal extracellular domain, a single membrane-spanning domain, and a small, highly conserved C-terminal cytoplasmic domain. The extracellular domain consists of 5 subdomains, each containing a cadherin motif, and appears to determine the specificity of the protein's homophilic cell adhesion activity. 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. This particular cadherin is predominantly expressed in brain and is putatively involved in synaptic adhesions, axon outgrowth and guidance. Mutations in this gene may be associated with lung squamous cell carcinoma and colorectal cancer in human patients. [provided by RefSeq, Nov 2015]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).