

Product datasheet for **SC314806**

PCDHA10 (NM_031859) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHA10 (NM_031859) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCDHA10
Synonyms:	CNR8; CNRN8; CNRS8; CRNR8; PCDH-ALPHA10
Vector:	<u>pCMV6 series</u>



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_031859, the custom clone sequence may differ by one or more nucleotides

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ATGGTTTCCAGATGTAGCTGCCTGGGGTCCAGTGTCTGCTGCTCTCGTCTTTCTCCTC
GCAGCCTGGGAGGTGGGGAGCGGCCAGCTCCACTACTCAGTCTACGAGGAGGCCAGACAC
GGCACCTTCGTGGGCCGATCGCGCAGGACCTGGGGCTGGAGCTGGCGGAGCTGGTGCAG
CGCCTGTTCCGGTGGCGTCCAAAAGACACGGGGACCTTCTGGAGTAAATCTGCAGAAT
GGCATTTTGTTGTGAATTCTCGATTGACCGCAGGAGCTGTGCGGGCGGAGCGTGGAG
TGCAGCATCCACCTGGAGGTGATCGTGGACAGGCCGCTGCAGTTTTCCATGTGGACGTG
GAAGTGAAGGACATTAACGACAACCCGCCAGTTCTCCGTAACAGAACAAAAGCTCTCA
ATACCTGAATCCAGACTGCTTACTCTCGATTTCCACTAGAAGGCGCATCTGATGCGGAT
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CGTGAAGAAAATCCTCAGCTAAAGTTGTTGTTGACAGCAACTGATGGAGGCAAACCTGAA
TTTACCGATCTGTTTCTGCTGATCCTGGTGTAGATGCCAATGATAACGCCCTATC
TTTGACAGACCGTTTTATGAAGTTAAGATGTATGAAAATCAAGTGAACCAACATTAGTA
ATACGGCTCAACGCTTCTGATTCCGATGAAGGAATAAACAGGAAATGATGTATTCAATTT
AGCTCTTTGGTCCCACCCACGATAAGAAGGAAATTTGGATAAACGAAAGACGGGAGAA
ATAAAAGTAAATGATGCTATTGACTTTGAGGACAGTAACACTTATGAAATTCATGTAGAT
GTTACAGATAAAGGAAACCCACCTATGGTTGGTCACTGCACGGTCTAGTGGAACTACTG
GATGAAAATGATAATTCACCTGAGGTGATTGTCACCTTCTGTCTCTCCAGTGAAGAA
GATGCTCAAGTGGGCACCGTCAATGCCCTAATCAGCGTTTCTGACCATGATTCAGGAGCC
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AAGAATTACTACTCATTGGTGTGGACAGCGCTCTGGACCGGAGAGGGTGTGCGGCTAT
GAGCTGGTGGTGACCGCGGGACGGGGCTCGCCTCCGCTGTGGGCCACGGCCAGCGTG
TCTGTGGAGGTGGCCGACGTGAACGACAACGCGCTGCGTTGCGCAGTCCGAGTACACG
GTGTTCTGTAAGGAGAACAACCCGCCAGGCTGCCACATCTTACGGTGTCTGCGTGGGAC
GCGGACGCGCAGGAGAACGCCCTGGTGTCTACTCTGTTGGAGCGCGGTTGGGCGAG
CGCTCGTGTGAGCTACGTGTCGGTGCACGCGGAGAGCGGCAAGGTGTACGCGTGCAG
CCGCTGGACCACGAGGAGCTGGAGCTGCTACAGTTCAGGTGAGCGCGCGGATGGGGG
GTGCCGCTCTGGGCAGCAACTGACGCTGCAGGTGTTCTGTGCTGGACGAGAACGACAAC
GCTCCCGCTGCTGGCGTCTCCCGCTGGCAGCGCGGGCGGTGCAGTCAGTGAGCTGGT
CTGCGGTGCGTGGTTGCGGGTACGTGGTGGCTAAGGTGCGCGCAGTGGACGCTGACTCT
GGATAACAACGCTGGCTGTCGTATGAATTGCAGTCGGCGCGGTTGGTGCACGCATCCCG
TTTCGCGTGGGGCTGTACACGGGCGAGATCAGTACGACGCGCGCTCTGGATGAGACTGAC
TCGCCACGCCAGCGCCTACTGGTGTGGTGAAGGACCATGGCGAGCCGTCGCTGACGGCC
ACGGCCACTGTGCTTGTGTCGTTGTGGAGGGCAGCCAGGCACCAAGGCCTCGTCGCGG
GCTTCAGTGGGCGTGGCGCCGAGGTGGCCCTGGTGGATGTCAACGTGTACCTGATCATC
GCCATCTGCGCGGTGTCCAGTTGCTGGTGTGCTCACGCTGCTGTACTGACTGACTGAGG
TGCTCGGCGGCGCCACCGAGGGCGCATGTGGCCGGTGAAGCCACGCTGGTGTGCTCT
AGCGCGGTGGGGAGCTGGTCTTACTCGCAGCAGAGCGGCGCAGAGGGTGTGTTCTGGGGAG
GGCCTGCCAAGCGGACCTCATGGCCTTACGCCAGCCTTCCACCATGCCCAATGGTA
GATGTGGACGGGAAGATCAGTCTATTGGAGGGGACCACTCTAGGAAGGTGGGTTATTAC
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ATGTATCAGAATTTTCATTTTTGTCTACATTCCATTTATGCTTGAATTTTCTAGTGAT
ACCTTTGTAATA
    
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Restriction Sites: Please inquire

ACCN: NM_031859

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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none"> 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:	<u>NM_031859.1</u> , <u>NP_114065.1</u>
RefSeq Size:	2535 bp
RefSeq ORF:	2535 bp
Locus ID:	56139
UniProt ID:	<u>Q9Y5I2</u>
Cytogenetics:	5q31.3
Domains:	CA
Protein Families:	Secreted Protein

Gene Summary:

This gene is a member of the protocadherin alpha gene cluster, one of three related gene clusters tandemly linked on chromosome five that demonstrate an unusual genomic organization similar to that of B-cell and T-cell receptor gene clusters. The alpha gene cluster is composed of 15 cadherin superfamily genes related to the mouse CNR genes and consists of 13 highly similar and 2 more distantly related coding sequences. The tandem array of 15 N-terminal exons, or variable exons, are followed by downstream C-terminal exons, or constant exons, which are shared by all genes in the cluster. The large, uninterrupted N-terminal exons each encode six cadherin ectodomains while the C-terminal exons encode the cytoplasmic domain. These neural cadherin-like cell adhesion proteins are integral plasma membrane proteins that most likely play a critical role in the establishment and function of specific cell-cell connections in the brain. Alternative splicing has been observed and additional variants have been suggested but their full-length nature has yet to be determined. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) utilizes the large, first exon then continues into the downstream intron 1 sequence before terminating. This one-exon transcript encodes a shorter isoform (2).