

## Product datasheet for **SC113351**

### PCDHA10 (NM\_018901) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHA10 (NM_018901) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCDHA10
Synonyms:	CNR8; CNRN8; CNRS8; CRNR8; PCDH-ALPHA10
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_018901, the custom clone sequence may differ by one or more nucleotides

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ATGGTTCCAGATGTAGCTGCCTGGGGTCCAGTGTCTGCTGCTCTCGTTCTTCTCCTCGCAGCCTGGG
AGGTGGGGAGCGCCAGCTCCACTACTCAGTCTACGAGGAGCCAGACACGGCACCTTCGTGGGCCGCAT
CGCGCAGGACCTGGGGCTGGAGCTGGCGGAGCTGGTGCAGCGCCTGTTCCGGGTGGCGTCCAAAAGACAC
GGGGACCTTCTGGAGGTAATCTGCAGAATGGCATTGTTTGTGAATTCTCGGATTGACC GCGAGGAGC
TGTGCGGGCGGAGCGTGGAGTGCAGCATCCACCTGGAGGTGATCGTGGACAGGCCGCTGCAGTTTTCCA
TGTGGACGTGGAAGTGAAGGACATTAACGACAACCCGCCAGGTTCTCCGTAACAGAACAAAAGCTCTCA
ATACCTGAATCCAGACTGCTTGACTCTCGATTTCCACTAGAAGGCGCATCTGATGCGGATGTTGGAGAGA
ACGCATTGCTTACTTACAACTCAGTCCAAATGAGTATTTGTTCTTGATATTATAAACAAAAAGACAA
AGACAAATCCCAGTGTGTTCTGCGGAAGCTGCTGGATCGTGAAGAAAATCCTCAGCTAAAGTTGTTG
TTGACAGCAACTGATGGAGGCAAACCTGAATTTACCGGATCTGTTTCTGCTGATCCTGGTGTAGATG
CCAATGATAACGCCCTATCTTTGACAGACCGGTTTATGAAGTTAAGATGTATGAAAATCAAGTGAACCA
AACATTAGTAATACGGCTCAACGCTTCTGATTCCGATGAAGGAATAAACAAAGGAAATGATGTATTCAATT
AGCTCTTTGGTCCCACCCACGATAAGAAGGAAATTTGGATAAACGAAAGGACGGGAGAAATAAAGTAA
ATGATGCTATTGACTTTGAGGACAGTAACACTTATGAAATTCATGATGTTACAGATAAGGGAACCC
ACCTATGGTTGGTCACTGCACGGTCTAGTGAACTACTGGATGAAAAATGATAATCACCTGAGGTGATT
GTCACTTCTGTCTCTCCAGTGAAGAAGATGCTCAAGTGGGACCGTCATTGCCCTAATCAGCGTTT
CTGACCATGATTACAGGACCAACGGACAGGTCACTGCTCTGACGCCTCACGTTCCGTTCAAGCTGGT
GTCCACCTACAAGAACTACTACTATTGGTGTGACAGCGCTCTGGACCGGAGAGGGTGTGCGGCTAT
GACTGGTGGTGACCGCGCGGGACGGGGCTCGCCTCCGCTGTGGGCCACGGCCAGCGTGTGTGGAGG
TGGCCGAGTGAACGACAACGCGCTGCGTTCCGCGCAGTCCGAGTACACGGTGTTCGTGAAGGAGAACA
CCCGCCAGGCTGCCACATCTTACGGTGTCTGCGTGGGACGCGGACGCGCAGGAGAACGCCCTGGTGTCC
TACTCTGTGGTGGAGCGCGGTTGGGCGAGCGCTCGTGTGAGCTACGTGTGCGTGCACGCGGAGAGCG
GCAAGGTGTACGCGCTGCAGCGCTGGACCACGAGGAGCTGGAGCTGCTACAGTTCAGGTGAGCGCGCG
CGATGGGGCGTGCCGCTCTGGGACGCAACTGACGCTGCAGGTGTTGCTGCTGGACGAGAACGACAAC
GCTCCCGCTGCTGGCGTCTCCGCTGGCAGCGCGGGCGGTGCAGTCAGTGAGCTGGTGTGCGGTGCG
TGGTTGCGGGTACGTGGTGGCTAAGGTGCGCGCAGTGGACGCTGACTCTGGATAACGCGTGGTGTGTC
GTATGAATTGCAGTCGGGCGGTTGGTGCACGCATCCCGTTTCGCGTGGGGCTGTACACGGGCGAGATC
AGTACGACGCGCGCTCTGGATGAGACTGACTCGCCACGCCAGCGCCTACTGGTGTGGTGAAGGACCATG
GCGAGCCGTGCTGACGGCCACGGCCACTGTGCTTGTGTGCTGTTGGAGGGCAGCCAGGCACCCAAAGGC
CTCGTCCGCGGCTTCAAGTGGGCGTGGCGCCGAGGTGGCCCTGGTGGATGTCAACGTGTACCTGATCATC
GCCATCTGCGCGGTGTCAGCTTGTGTTGCTCACGCTGCTGTACACTGCACTGAGGTGCTCGGCGG
CGCCACCGAGGGCGCATGTGGGCGGTGAAGCCACGCTGGTGTGCTCTAGCGCGGTGGGGAGCTGGTC
TTACTCGCAGCAGAGGGCGCAGAGGGTGTGTTCTGGGGAGGGCTGCCAAGGGGACCTCATGGCTTC
AGCCCCAGCTTCCACATGCCCAATGGTAGATGTGGACGGGGAAGATCAGTCTATTGGAGGGGACCACT
CTAGGAAGCCACGACAGCCCAACCCTGACTGGCGTTACTCTGCTCCCTGAGAGCAGGCATGCACAGCTC
TGTGCACCTAGAGGAGGCTGGCATTCTACGGGCTGGTCCAGGAGGGCCTGATCAGCAGTGGCCAACAGTA
TCCAGTGAACACCAGAACCAGAGGCGAGGAGAAGTGTCCCTCCAGTCGTTGCGGGTGTCAACAGCAACA
GCTGGACCTTTAAATACGGACCAGGCAACCCCAACAATCCGGTCCCGGTGAGTTGCCCGACAAATTCAT
TATCCCAGGATCTCCTGCAATCATCTCCATCCGGCAGGAGCCTACTAACAGCCAAATTGACAAAAGTGAC
TTCATAACCTTCGGCAAAAAGGAGGAGACCAAGAAAAAGAAGAAAAAGAAGGGAACAAGACCCAGG
AGAAAAAAGAGAAAGGGAACAGCAGACTGACAACAGTGACCAGTGA
    
```

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_018901 unedited  
 TCCATATTTTGTAAACGACTTACTATAGGGCGGCCGCGCAATTCGCACGAGGGCCATTT  
 CGATAAAAAATAGATTAAGAAATAGACAGAAAATGTCAGATCGTATGTGCGTTCTAGACC  
 GCTGATTCGTCGATTTGTAAAACAAGAGAAGGATAAGATGGTTTCCAGATGTAGCTGCCT  
 GGGGGTCCAGTGTCTGCTGCTCTCGTTCTTCTCCTCGCAGCCTGGGAGGTGGGGAGCGG  
 CCAGCTCCACTACTCAGTCTACGAGGAGCCAGACACGGCACCTTCGTGGGCCGCATCGC  
 CAGGACCTGGGGCTGGAGCTGGCGGAGCTGGTGCAGCGCCTGTTCCGGGTGGCGTCCAA  
 AAGACACGGGGACCTTCTGGAGGTAATCTGCAGAATGGCATTTTGTGTTGAATTCTCG  
 GATTGACCGCGAGGAGCTGTGCGGGCGGAGCTGGAGTGCAGCATCCACCTGGAGGTGAT  
 CGTGGACAGGCCCTGCAGGTTTTCCATGTGGACGTGGAAGTGAAGGACATTAACGACAA  
 CCCGCCAGGTTCTCCGTAACAGAACAAAAGCTCTCAATACCTGAATCCAGACTGCTTGA  
 CTCTCGATTTCCACTAGAAGGCGCATCTGATGCGGATGTTGGAGAGAACGCATTGCTTAC  
 TTACAAACTCAGTCCAAATGAGTATTTTGTCTTGATATTATAACAAAAAGACAAAGA  
 CANATTCAGTCTTGTCTGCGGAAGCTGCTGGATCGTGAAGAAATCCTCACTAAAGT  
 TGTTGTGACAGCAACTGATGGATGCAAACCTGAAATTACCGNATCTGTTCTCTGCTGATC  
 CCTGTGTTAGATGCCAATGATTACGCCCTATCTTTGACAGACCCGTTTATGAAAGTNAG  
 ATGTTTAAAATTCAAGTGAACCAACATTAGTTATACCGCTCAACGCTCCTGATTCCGAT  
 GAAGGAATAACAAGA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_018901 unedited  
 ATGGACCGCGCGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTGGTCTTGATA  
 TATAGTTGGTTAGAGAAGTTGTGTATCAAAGTGCACATAAATTGTTTCTTAGAAAAGAGA  
 GAGAGAGAGAGAAAGAGAGATCATTTTATTTAGTAATACATGCAAGAGGCAGCCCAGAG  
 TGACCTGAAAGAGTAAAGCTGTGATTGGCAGGTGGCCGATATAATACAGATGTTTCAGGC  
 AATTCTCTTAAAGCACTTCTGTAGCAGCAATGATCATTTAAATGGCTGTAGACTGAATTC  
 TCTTTTGGAGAGAGTTTAGGGGAATTGTATTATTTCTCTTTAAAGATTTATAGCTAT  
 AGACTTTCTCTTTTTTAAATAAATCTATGAAACAACAACAGCGAAAGGTGAGGTGTGCG  
 GGGTTTTCTTTTGTCTTTGCATAAGTATTGGAAAAGGATCTGGCCTTTTCATAAACATTG  
 TGTGCAAAAAGAAATTTTAAATAAAGTGAACACAGGACATGTATAGGAAACACATCAGATCT  
 GCTTCTGTTTCCAGGGTGGTTCTCTGTTAAACACTGAACTGTTGGCTTGCAGGTATGA  
 TGCAGATTNTAGGTATAATGACGTGACAGCCAACAGACTTTAGGGTCTCCTAAGCCTTGG  
 CAGTGGGGTAGTTTTGTCTCCTAGAGGGTGGCTGGCACCTTTGAGTTGTAAGACTTAG  
 AAAGTCTGGTCCCTTAAGTTACACTTCCCCTCCTACTGATAAATCCGCTGTTAATTGCTT  
 TGGTTTCTGCCTCCTTGAACCAATAGTCTAGCTGCCTGGGCTAGCCAATATCTGCACTC  
 GCATAACCGGGTAGCCACCCTACCCAGGGGCCCAACTCCAGCTGGTTAATTTAAACTTT  
 TTCGCCTGCCTGGAGGGTCTTAAGACGGATCCCGGGACACAGGCAAAGTCCACCCTCTG  
 GGGGTTGCAA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_018901

**Insert Size:**

4640 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\\_018901.2](#), [NP\\_061724.1](#)

**RefSeq Size:** 5254 bp

**RefSeq ORF:** 2847 bp

**Locus ID:** 56139

**UniProt ID:** [Q9Y5I2](#)

**Cytogenetics:** 5q31.3

**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 (1) includes the constant region exons and encodes the longest isoform (1).