

Product datasheet for SC110563

PCDHA11 (NM_018902) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHA11 (NM_018902) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCDHA11
Synonyms:	CNR7; CNRN7; CNRS7; CRNR7; PCDH-ALPHA11
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110563 sequence for NM_018902 edited (data generated by NextGen Sequencing)

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ATGTTTGGTTTTTCAGAGAAGGGGATTGGGCACCCACGACTACAGCTCTGGCTTCTCCTC
CTCGAATTCTGGGAGGTGGGAGCGGCCAGCTCCACTACTCCGTCTCGGAGGAGGCCAAA
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CAGCGCTGTTCCGGGTGGCGTCCAAAACACATGGGGACCTTCTGGAGGTAATCTGCAG
AATGGCATTGTTTGTGAATTCTCGGATCGACCGCGAGGAGCTGTGCGGGCAGAGCGCG
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GTGGAGGTGAAGGACATTAACGACAACCCGCCGGTGTTCGCTCAGAGAACAAAAGCTG
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GAGCTTACTGGCACCGTTTCGGCTGTTAGTCCAAGTCTTGGATGTCAACGACAATGATCCA
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GCGGACGCGCAGGAGAACGCGCTGGTGTCTACTCGCTGGTGGAGCGCGGTTGGCGCAC

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CGCGCGCTGTCGAGCTACGTGTCGGTGCACGCGGAGAGCGGCAAGGTGTACGCGCTGCAG
 CCGYTGACCACGAGGAGCTGGAGCTGCTACAGTTCAGGTGAGCGCGCGGATGCGGGC
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 ACCAAGAAAAAGAAAAAGAAAGGGTAACAAGACCCAGGAGAAAAAAGAGAAAGGG
 AACAGCACGACTGACAACAGTGACCAGTGA

Clone variation with respect to NM_018902.3
 1564 t=>y

**5' Read Nucleotide
 Sequence:**

>OriGene 5' read for NM_018902 unedited
 CCGCGAATTCGGCAGGAGGTTTAAGGATCCTTTGAACTTCTTAAGAATTCAACGAGAT
 TTTTAACCTGAAACTGAAGAATCTGGTACTGTAAGTGTAAGAAGCTTATTTTGGAGCC
 AATTTTCGTATGCGATGTTTGGTTTTTCAGAGAAGGGGATTGGGCACCCACGACTACAGCT
 CTGGCTTCTCCTCCTCGAATTCTGGGAGGTGGGAGCGGCCAGCTCCACTACTCCGTCTC
 GGAGGAGGCCAAACACGGCACCTTCGTGGGCGCATCGCGCAGGACCTGGGGCTGGAGCT
 GGCGGAGCTGGTGCAGCGCCTGTTCCGGGTGGCGTCCAAAACACATGGGGACCTTCTGGA
 GGTAAATCTGCAGAAATGGCATTGTTTGTGAATTCTCGGATCGACCGGAGGAGCTGTG
 CGGGCAGAGCGCGGAGTGCAGCATCCACCTGGAGGTGATCGTGGACAGGCCGCTGCAGGT
 TTTCCATGTGAACGTGGAGGTGAAGGACATTAACGACAACCCCGGTGTTCTCGCTCAG
 AGAACAAAAGCTGCTGATTGCGGAATCTAAGCAATCGGACTCGCGTTTTCCACTAGAGGG
 AGCTTCTGATGCTGACATTGAAGAGAATGCTCTATTGACCTACAGGCTAAGTAAAAATGA
 GTATTTTCTTTAGATTCACCAACANATGGTAAGCAGATTAAGAACTGTCACTTATTNT
 AAAGAAGTCTCTGGATAGAGAGAAAACCTCCGAACTTTATTTGCTGCTAACAGCTACAGA
 CGGGGAANACCAGGCTTACTGGCACCCTTCGGCTGNTAGTCCCAGTCTTGGATGTCNA
 CGCATGATCCAGAGTTTGATAATCAGATATAAAGGGAGCCTATGGAAATGCTGTAA

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_018902 unedited TCTGGACCGCGGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTGCTTTTTTTA AATAACAGACTCTACCTCTTTTATATTAATGCCTAAATAGATAATATAATTAATCAAAC TTCTAAATTGTACATTATAACAAAATTTAAATGTCTTATTTAAGGTGACAGCAAATTTG TTACTTTCTATGAGCTGATATTTTCAGATACCATTAGAATTTCAAAGCATTCTGCAACTTC AAAGAGGTCAGATTGGTAAAATTTGTGCTTGCACACCCTCATGGAATATTGTCAGTATTC ATTCCAAAATTTGTTACTAGAACAAAACAGCTTTATCCATTCCCTTGCCAGCAGAAGTCTT GGCAGGATGGCTCTTGGCTGGACCATAAATAAAATTCCTTGAATCACCAGTATCTTGA TTTAAGAAAGAAATTTTACTGTGTCTTTTCATACAAAAGCTGATTAACAATGGTAAAA AAAACACTACTCCACTTTTTTACAGGTGTACAAAAGGAAATATAATGGAATTACATTCAA CAATAAAGCTTAAAGTTCACTCTAGGTAATAGTTGCATTAACATTCACATACACAAGCAC AGAGTAAGTATATTTTCAGGAGTCTTAGCATAGCATACAGCATACATATGGGAGATTGATT TCAGGTAACATCATAGGTGTTAGTAAGATTAGCAATTCAGAGTGGTATAGAAAAGGAAAA CTAAACCAAAGAGAAGGTGTACGCTAGCACACCAAGACAAGTCACAGAATTAGTAGATTG AAAAATCTGCTCACTGTATGAGAACACCATTTTTTCTTTCATTTTTAGGGTCTTGATAT AAGTTGGCTAGAGAACGCTGGCTATCAAATGCCATAATTGTTCCCTTAACAAGGGGAGAG GGAGAGCGGAAGAGCGGTCCCTTTAATTTAGTATACATGCCAGAAGGCCNCCCACAGTG AACCTGAAGAAATAAAGCTTGGATTGCCAGTGGCCCN
Restriction Sites:	NotI-NotI
ACCN:	NM_018902
Insert Size:	4130 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:	<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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_018902.3 , NP_061725.1
RefSeq Size:	6115 bp
RefSeq ORF:	2850 bp
Locus ID:	56138
UniProt ID:	Q9Y511

Cytogenetics: 5q31.3

Domains: CA

Protein Families: Transmembrane

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).