

Product datasheet for **SC110568**

PCDHA6 (NM_018909) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHA6 (NM_018909) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCDHA6
Synonyms:	CNR2; CNRN2; CNRS2; CRNR2; PCDH-ALPHA6
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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Fully Sequenced ORF: >NCBI ORF sequence for NM_018909, the custom clone sequence may differ by one or more nucleotides

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ATGGTGTTTACCCCGGAGGATAGATTGGGAAAGCAATGTCTGCTCCTCCCCTTCTGCTCCTCGCAGCCT
GGAAGGTGGGGAGCGCCAGCTCCACTACTCCGTACCCGAGGAGGCCAAACACCGCACCTTCGTGGGCCG
GATCGCGCAGGACCTGGGGCTGGAGCTGGCGGAGCTGGTGCCGCGCTGTTTTCAGGATGGCTCCTCAAGAC
CGCGAGGACCTTCTGGAGGTAATCTGCAGAATGGCATTGTTGTTGTGAATTCTCGGATCGACCGGAGG
AGCTGTGCGGGCGGAGCGCGGAGTGCAGCATCCACCTGGAGGTGATCGTGGACAGGCCGCTGCAGGTTTT
CCATGTGGACGTGGAGGTGAGGGACATTAACGACAACCCGCCCTTGTCCCGGTAGAGGAACAAAGAGTG
CTGATTTACGAATCTAGGCTGCCAGATTCTGTGTTTCCACTGGAGGGCGCGTCCGATGCAGATGTTGGCT
CAAATTCATCTTAACCTATAAACTCAGTTCTAGCGAATACTTCGGGCTAGATGTGAAAAAATAACAGTGA
TGACAATAACAAATGGGCTCTTATTAAGAAATCCTTGACAGAGAGGAAGCTCCTGCACACAATTA
TTCTGACAGCCACAGATGGGGCAAACCTGAGCTCACAGGCACTGTTTTCAGCTGCTGGTACAGTGTGG
ATGTGAATGATAATGCTCCACTTTTGAACAGTCTGAATACGAAGTAAGAATATTCGAAAATGCAGACAA
CGGAACAACAGTTATCAGACTGAATGCTTCTGATCGGGATGAAGGAGCGAATGGGCAATTTTATATTCT
TTAATAGCCTTGTGACGCCATGGTTATTGACCACTTATGATAGATCGAAAATACGGGAGAAAATAGTGA
TTCGGGTAATTTGGATTTTGAACAAGAAAATATACAAAATCCTCATTGACGCCACGGACAAAAGGCCA
TCCTCCCATGGCGGGTCAATGACCCGTTTTAGTGAGAAATTTGGATAAAAATGATAACGTCCTGAGATA
GCACTGACTTCCTTATCCTTGCCTGTACGTGAAGACGCTCAATTTGGTACTGTATCGCCCTAATTAGCG
TGAACGACCTCGATTGAGTCCACCGGCAAGGAGTGAAGTGTGCTGCTGACGCTCACGTCCTTTCAAGCT
GGTGTCCACTTCAAGAATTACTACTCGTTGGTGTGACAGTGCCTGGACCGGAGAGCGTGTGCGGCC
TATGAGTTGGTGAACCGCGCGGGGCTCGCCTTTCGCTGTGGGCCACCGCCAGCTTGTCTGTGG
AGGTGGCCGACATGAATGACAATGCTCCGGCGTTTCGCGCAGCCGAGTACACAGTGTTCGTGAAGGAGAA
CAACCCGCCGGCTGCCACATCTTACGGTGTCTGCGCGAGACGCGGACGCGCAGGAGAACGCGTGGT
TCCTACTCGTGGTGGAGCGCGGGTGGGCGAGCGCGTGTGCGAGCTACATTTCCGGTGCACGCGGAGA
GCGGCAAGGTGTACGCGCTGCAGCCGCTGGACCACGAGGAGCTAGAGTGTGCTGACGTTTTCAGGTGAGCG
GCGCGACGCGGGCTGCCGCTTGGGAGCAACGTGACGCTGCAGGTGTTTTCGCTGACGAGAACGAC
AACGCGCCGGCTGCTGGCCTCGGGTGGTGGTACTGGTGGTGCAGTGCAGGAGCTGGTCCCGGT
CACTGGTGCAGGCCAAGTGGTGGCAAGGTGCGCGCAGTTGACGCCACTCAGGCTACAACGCGTGGCT
TTCGATGAGCTGCAGCCCCGCAAGCAGCGCTCGCTTCCCGTTTCGCGTGGGCTGTACACGGGCGAG
ATCAGCACCACTCGTGTCTGGACGAAGCGGACTCTCCGCGCCACCGGCTGCTGGTGTGGTGAAGACC
ACGGTGCAGCGCGCTGACAGCGACGGCCACGGTTCTGGTGTGCTGGTGGAGAGTGGCCAGGCTCCAAA
GGCGTCAACACGGGCGTCCGTGGGCGCCGCGGGCCAGAGGCGGCGCTGGTGGATGTCAACGTGTACCTG
ATCATCGCCATCTGCGCGGATCCAGCCTGCTGGTCTCACGCTACTGCTGTACACAGCGCTGCGGTGCT
CGGCGCCACCCACCGAGGGCGCGTGCACGGCGGACAAGCCACGCTGGTGTGCTCCAGCGCAGTGGGGAG
CTGGTCTACTCGCAGCAGAGGGCGCAGAGGGTGTGCTCCGGGAGGGCCACCAAGATGGATCTCATG
GCCTTTAGCCCCAGCCTTACCTTGTCTATTATGATGGTAAGGCGGAGAATCAGGATTTAAATGAAG
ATCATGATGCCAAACCACGACAGCCCAACCTGACTGGGTTACTCTGCCTCCCTGAGAGCAGGCATGCA
CAGCTCTGTGCACCTAGAGGAGGCTGGCATTCTACGGGCTGGTCCAGGAGGGCCTGATCAGCAGTGGCCA
ACAGTATCCAGTGCAACACCAGAACCAGAGGCAGGAGAAGTGTCCCTCCAGTCCGTGCGGGTGTCAACA
GCAACAGCTGGACCTTTAAATACGGACCAAGCAACCCAAACAATCCGGTCCCGGTGAGTTGCCGACAA
ATTCATTATCCCAGGATCTCTGCAATCATCTCCATCCGGCAGGAGCCTACTAACAGCCAAATTGACAAA
AGTGACTTCATAACCTTCGGCAAAAAGGAGGAGACCAAGAAAAAGAAAAAGAAAGGGTAACAAGA
CCCAGGAGAAAAAGAGAAAGGGAACAGCAGACTGACAACAGTGACCAGTGA
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_018909 unedited NTTTTAGCTTGNACCGCGGCCCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTAAAT AAATCTATGAAACAACANAACAGCGAAGGTGAGGTGTCGGGGTTTTCTTTTGCTTTTGCA TAAGTATTGAAAAGGATCTGGCCTTTTCATAAACATTGTGTGCAAAAGAATTTTAATA AAGTGAGCACAGGACATGTATAGGAAACACATCAGATCTGCTTCTGTTTCCCAGGGTGGT TCTCTGTAAAAACACTGAACTGTTGGCTTGCAGGTATGATGCAGATTTTAGGTATAATGA CGTCACAGCCAACAGACTTTAGGGTCTCCTAAAGCCTTGTGAGTGGGGTAGTTTTGTCT CCTAGAGGGTGGCTGCCACCTCTTGAGTTGTAAGATTTAGAAAGTCTGGTCCCTTAAGT TTACACTTCCCCTCCATACTGATAAAGTCCGCTGTTTATTTGTCTTTGTTTTCTGCCTT CCTTGTACCAATTAGTCTAAGCTGGCTCGTCTCAGCCAATATCTGGCACTCGCATACCCG CGGTAGCCACACATACCCAGTGGCCACAACTCCCAAGCTGCTCAATCTCAAACTTTTC AGCCTGCCCTGCAAGTGTCAAGACAGGATCCCCGGAGCACAGGCAGAGAGTCCAAC CTCTACTGGCGNGCTGGGAAGCCTCTCCTTTGCGGCCGAGAGAAAGGAACTGGGT CTGCTCTTTAAGTTCTGAAAACAAGCCAGAGTGGAGAGAAAGAGCTAACACCAGACTTA GTAAAGCTTCTACCACAAAACCTGTTAAATGCGCTCTAAACAAACCCAGGGACTTTCTGC AAATTCCTGAGGCCTTAAAAGGGCTATGTCAAAGGAAAAAGACCCGGACATGCCCCCTG GCAGACATTGCCCTTATTCAACAACCTTTTAAAGGGT
Restriction Sites:	NotI-NotI
ACCN:	NM_018909
Insert Size:	3780 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).
RefSeq:	NM_018909.2 , NP_061732.1
RefSeq Size:	5287 bp
RefSeq ORF:	2853 bp
Locus ID:	56142
UniProt ID:	Q9UN73
Domains:	CA
Protein Families:	Secreted Protein, 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). CCDS Note: A downstream start codon is annotated for this CCDS representation because its use is more consistent with the presence of an N-terminal signal peptide in the protein, which is known to contain extracellular cadherin domains. However, it should be noted that an alternative upstream start codon exists, which would result in a protein that is 9 aa longer at the N-terminus and is less likely to contain a signal peptide. The upstream start codon has a weak Kozak signal, so it is possible that leaky scanning by ribosomes will allow the use of the downstream start codon. There is no experimental evidence indicating which start codon is used in vivo.