

Product datasheet for **SC314971**

PCDHA4 (NM_018907) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHA4 (NM_018907) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCDHA4
Synonyms:	CNR1; CNRN1; CRNR1; PCDH-ALPHA4
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 sequence for NM_018907 edited
 ATGGAGTTTTCTGGGGAAGCGGCCAGGAATCCCGCGTCTGCTGCTTACTTCTTCTC
 CTCGCAGCCTGGGAGGCAGGGAACGGTCAGCTCCACTACTCGGTCTCCGAGGAGGCCAAA
 CACGGCACCTTCGTGGGCCGCATCGCGCAGGACCTGGGACTGGAGCTGGCGGAGCTGGTG
 CCGCGCCTGTTCCGGGTGGCGTCCAAGGGCCGCGGAGGCTTCTGGAGGTAATCTGCAG
 AATGGCATTGTTTGTGAATTTCTGGATCGACCGGGAGGAGCTGTGCCGGCGGAGCGCG
 GAGTGCAGCATCCACCTGGAGGTGATCGTAGACAGGCCGCTGCAGGTTTTCCATGTGGAC
 GTGGAGGTGAGGGACATTAACGATAACCCGCGGTGTTCCAGCAACACAAAAGAACCTG
 TCCATCGCGGAATCCAGGCCGCTTGACTCTCGGTTTCCACTAGAGGGCGCCTCGGATGCA
 GATATCGGGGAGAACGCCCTGCTCACTTACAGACTGAGCCAAATGAATACTTTTCTCTG
 GAAAAACCACTGATGACGAGCTGGTAAAAGTCTTGGGCTTATATTACGGAAATCTTTA
 GACAGAGAAGAAGCTCCGGAGATTTTTTATGCTCACAGCCACTGATGGAGGCAAACCC
 GAGTTGACTGGCACCGTTCACTACTCATCACAGTACTGGATGCCAATGACAATGCCCA
 GCTTTTGACAGAACCATTATAAGGTGAGATTACTAGAAAATGTTCTAATGGAACATTG
 GTAATTAACCTAACGCCTCAGATTTAGACGAAGGATTGAATGGGGACATTGTTTATTCA
 TTCTCAAATGATATTTCCGCAAATGTGAAATCCAAGTTTACATAGATCCAATTACTGGA
 CAAATTATTGTAAGGGATATATTGACTTTGAAGAAAGCAAATCCTATGAAATTATTGTA
 GAGGGCATTGATAAGGGACAGCTCCCACTTTCTGGCCATTGTAGAGTTATTGTGGAAGTA
 GAAGACAACAACGATAATGTCCCAGATTTGGAATCAAGTCTTTATCACTTCCAATTAGA
 GAGGACGCTCCACTGGGTACAGTCATCGCCCTGATCAGCGTGTCCGACAAAGACATGGGT
 GTCAATGGGCTGGTCACTGCTCCTTGACGTCCACGTCCCTTCAAGCTGGTGTCCACC
 TTCAAGAATTACTACTCGTTGGTGTGGACAGTCCCTGGACCGGAGAGCGTGTACAGCC
 TATGAGCTGGTGGTACCGCGGAGACGGGGCTCGCTTCGCTGTGGCCACGGCCAGT
 GTTTCTGTGGAGGTGGCTGATGTGAACGACAACGCTCCGCGGTTCCGCGCAGCCCGAGTAC
 ACAGTGTTCGTGAAGGAGAACAACCCGCGGGCTGCCACATCTTCACTGTGTCTGCGTGG
 GACGCGGACGCGCAGGAGAACGCGCTGGTGTCTACTCGTGGTAGAGCGGCGGGTAGGG
 GAGCGCGCGCTGTGAGCTACGTTTCCGGTGCATGCGGAGAGCGGCAAGGTGTACGCGCTG
 CAGCCGCTGGACCAGGAGGACTAGAGCTGCTGCAGTTTCAAGTGACCGCTCGCGATGCC
 GCGGTGCCACCTCTGGGCAGCAACGTGACGCTGCAGGTGTTCTGCTGGACGAAAACGAC
 AACCGCCAGCACTGCTAGCGCTCGGGCGGGTGGCACTGGTGGCGCAGTGAAGCGAGCTG
 GTGCCATGGTCCGTGGGTGTGGCCACGTGGTGGCAAAGGTGCGCGCGGTGGATGCTGAC
 TCGGGCTACAACCGGTGGCTTTCTGACGAGCTGCAGCCGGGACTGGTGGCGCGCCGATC
 CCGTTCGCGGTGGGGCTGTACACTGGCGAGATCAGCACAACGCGTGCCTGGACGAAACG
 GACGCTCCGCGCCACCGCTACTGGTACTGGTGAAGGACCACGGCGAGCCCGCGCTGACG
 GCCACGGCCACTGTGCTGGTGTCACTTGTGGAGAGTGGACAGGCGCCAAAGGCTCCTCA
 CGGGCGTGGTGGGCGCTGTGGTCCCAGTGTGCGCTGGTGGATGTCAACGTATACCTG
 ATCATTGCCATCTGCGCGGTGTCCAGCCTTTTGGTGTCCAGCTGCTGCTGTACACCGCG
 CTGCGGTGCTCTGCGCTGCCACCGAGGGCGCTGCGCTCCGGGAAGCCACGCTGGTG
 TGCTCCAGTGCAGTGGGAGCTGGTCACTCGCAGCAGAGGAGGCCGAGGGTGTGCTCT
 GGTGAGGGCCACCAAGACCGACCTCATGGCCTTCAGCCCAAGTTTACCTGACTCTAGG
 GACAGAGAAGATCAGCTGCAGACAACCTGAGGAATCCTTTGCAAAGCCACGACAGCCAAAC
 CCTGACTGGCGTTACTCTGCCTCCCTGAGAGCAGGCATGCACAGCTCTGTGCACCTAGAG
 GAGGCTGGCATTCTACGGGCTGGTCCAGGAGGGCTGATCAGCAGTGGCCAAACAGTATCC
 AGTGCAACACCAGAACCAGAGGCAGGAGAAGTGTCCCCTCCAGTCCGTGCGGGTGTCAAC
 AGCAACAGCTGGACCTTTAAATACGGACCAGGCAACCCCAACAATCCGGTCCCGGTGAG
 TTGCCCGACAAAATCATTATCCAGGATCTCCTGCAATCATCTCCATCCGGCAGGAGCCT
 ACTAACAGCCAAATTGACAAAAGTGACTTCATAACCTTCGGCAAAAAGGAGGAGACCAAG
 AAAAAGAAGAAAAGAAGGGTAAACAAGACCCAGGAGAAAAAAGAGAAAGGGAACAGC
 ACGACTGACAACAGTGACCAGTGA

Restriction Sites: Please inquire

ACCN:	NM_018907
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).
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_018907.2</u> , <u>NP_061730.1</u>
RefSeq Size:	5352 bp
RefSeq ORF:	2844 bp
Locus ID:	56144
UniProt ID:	<u>Q9UN74</u>
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).