

Product datasheet for **SC314950**

PCDHA5 (NM_018908) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHA5 (NM_018908) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCDHA5
Synonyms:	CNR6; CNRN6; CNRS6; CRNR6; PCDH-ALPHA5
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_018908 edited
 ATGGTATATTCCTCCGAGAGGAAGTCTGGGATCCCGCTCTGCTGCTCTGGCTTCTCCTT
 GCCTACTGGAAGGCAGGGAGCGGCCAGCTCCACTACTCGATCCCGGAGGAAGCCAAACAC
 GGAACCTTCGTTGGCCGATCGCGCAGGACCTAGGGCTGGAGCTGGCGGAGCTGGTGCCG
 CGCCTGTTCCGGGTGGCGTCCAAGGGCCGCGGGACCTTCTGGAGGTAATCTGCAGAAT
 GGCATTTTGTGTTGTAATCTCGGATCGACCGGGAGGAGCTGTGCCGGCGAGGGCGGAG
 TGCAGCATCCACCTGGAGGTGATCGTGGACAGGCCGCTGCAGGTTTTCCATGTGGAGGTG
 GCAGTGAAGGACATCAATGACAATCCGCCAGGTTCTCCAGACAAGAACAAGATTATTC
 ATTTTAGAGTCAAGAATGCCAGATTCCGGTTTTCCGCTAGAGGGCGCGTCCGATTGGAT
 ATTGGAGCAAATGCACAATTGAGATACAGGTTAAATCCAAACGAATATTTTGAAGTATAGT
 GTTAAACAAATGAAGAAGAAACGAACCTTTTATAGACTGGTTTTGAGGAAATCCTTAGAT
 AGAGAAGAAACACAAGAACACCGTTTTATTAGTATTGCAACTGATGGAGGAAAACCCGAA
 CTAACAGGTACAGTTCAGTTGTTGATCAATGTATTGGATGCTAATGATAACGCCCCAGAA
 TTTGATAAATCCATTTAATGTCAGATTGTTGAAAAATGCACCAAGTGGGACATTAGTT
 ATTAAACTGAACGCTCAGATGCAGATGAGGCCATCAATAAGGAAATAGTGTATTTCTTT
 AGTAATCTTGTCTTACGATGTAAAGTCCAAATTTATAATTAATTCTAATACTGGTGAA
 ATAAAAGTTAACGGGAACTGGATTATGAAGACTATAACTCATATGAAATTAATATTGAT
 GCCATGGATAAAAGTACATTCCTTATCAGGACACTGTAAGTGTAGTAACTCCTG
 GATGTGAATGATAATACCCAGAGATGGCCATAACACCCTTTTCTGCCTGTCAAAGAG
 GACGCTCCACTCAGCACGGTCATTGCTCTGATCAGCGTGTCTGACCGTACTCAGGTGCC
 AACGGGACGGTGACCTGCTCCCTAATGCCCCACGTTCCCTTCAAGCTGGTGTCCACCTTC
 AAGAATTACTACTCGTTGGTGTGGACAGCGCCCTGGACCGGAGAGCGTGTCCGTTCTAT
 GAGCTGGTGGTGACCGCGCGGGACGGGGCTCGCTTCGCTGTGGGCCACCGCCAGCGTG
 TCTGTGGAAGTGCCGAGGTGAACGACAACGCTCCGGCGTTCCGCGAGCCCAAGTATACC
 GTGTTCTGTAAGGAGAACAACCCGCCAGGCTGCCACATCTTACGGTGTCTGCACGGGAC
 GCGGACGCGCAGGAGAACGCCCTGGTGTCTACTCGTGGTGGAGCGCGGGTGGGCGAG
 CGCCCGTGTGAGTTACGTTTCGGTGCACGCGGAGAGCGGCAAGGTGTACGCGTGCAG
 CCGCTGGACCACGAGGAAGTGGAGCTGCTGCAGTTCAGGTGAGCGCGCGCAGCGGGC
 GTGCCGCTCTGGGCAGCAACGTGACGCTGCAGGTGTTCTGTGCTGGACGAGAACGACAAC
 GCGCCGGCTGCTGGTGCCTCGAGTGGTGGCACCAGCGCGCAGTGGAGGAGTGGT
 CCGAGGTGAGTGGTGGCGGCCACGTGGTGGCAGGAGTGGCGCAGTGGACCTGATTCCG
 GGCTACAACGCTTGGCTTTCGTATGAGCTGCAGCCAGCGCTGGCAGTGCAGCGCATCCCG
 TTCCGCGTGGGGCTGTACACAGGCGAGATCAGCAACAACGCTCTCTGGATGAGACCGAA
 GCACCGCGCCACCGCTTCTGGTGTGGTGAAGGACCATGGAGAGCCCCCGCTGACAGCC
 ACAGCCACAGTGTGGTGTGCTGGTGGAAAGTGGCCAGGCGCGGAAGGCCTCATCGCGG
 GCGTCCGCGGGCGCTGTGGGTCCCGAGGCTGCCCTGGTGGATGTCAACGTGTACCTGATC
 ATCGCCATCTGTGCGGTGCCAGCTGCTGGTGTCTCACGCTGTGCTGTACACCGCGCTG
 CCGTGTCCGCGCAGCCACCGAGGCGGTGTGCACACGGGGCAAGCCACTCTGTTGTGC
 TCCAGCGCGTGGGGAGCTGGTCTACTCGCAGCAGAGGAGACAGAGGGTGTGCTCTGGG
 GAAGTCCACCCAAAACAGACCTCATGGCTTTCAGTCCAAGCCTTCTCAGGGTCCACCC
 TCTACAGACAACCCACGACAGCCCAACCCTGACTGGCGTTACTCTGCCTCCCTGAGAGCA
 GGCATGCACAGCTCTGTGCACCTAGAGGAGGCTGGCATTCTACGGGCTGGTCCAGGAGGG
 CCTGATCAGCAGTGGCCAACAGTATCCAGTGCAACACCAGAACCAGAGGCAGGAGAAGTG
 TCCCTCCAGTCCGTGCGGGTGTCAACAGCAACAGCTGGACCTTTAAATACGGACCAGGC
 AACCCCAAACAATCCGGTCCCGGTGAGTTGCCCGACAAATTCATTATCCAGGATCTCCT
 GCAATCATCTCCATCCGGCAGGAGCCTACTAACAGCCAAATGACAAAAGTGACTTCATA
 ACCTTCGGCAAAAAGGAGGAGACCAAGAAAAAGAAAAAGAAAGAGGGTAACAAGACC
 CAGGAGAAAAAGAGAAAGGGAACAGCAGACTGACAACAGTACCAGTGA

Restriction Sites:

Please inquire

ACCN:

NM_018908

Insert Size:	5000 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:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_018908.2.
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_018908.2</u> , <u>NP_061731.1</u>
RefSeq Size:	5218 bp
RefSeq ORF:	2811 bp
Locus ID:	56143
UniProt ID:	<u>Q9Y5H7</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).