

Product datasheet for **SC304635**

PCDHAC1 (NM_018898) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	PCDHAC1
Synonyms:	PCDH-ALPHA-C1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>SC304635 representing NM_018898.

Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGTGGGCTGTGGGTGGCAGTTTATGTTTGTGGGTTTCCTGCGGCGCTGCAGCGGGACAGCTCGAG
TACTCAGTGCCGGAGGAGACGGAGCGGGCGTAGCCGTAGGCAATCTCTCCGCGGACTTGAGGCTGCCA
GCGGCCGCTATGTCTCGCGAACTTTCGCTTCTTTCCAGCCACCGCGAGCTCTACTTCGGGGTGGAT
CTACCCAGCGGCAATTTGGTGGTCAGAGAGCCGCGGACCGCGAACAGCTGTGCAGGGCCAAAGCTGCC
TGCGTCTTGACCTACGACCTGGTGTCTGAGGACCCGCTGGAGCTGCACAAGATTCGGATTACGTCCTG
GACACCAATGACAACTCACCTCTCTTTCCTGCGGCGACGTGCAGCTGCACATCCCCGAGTTCCTGACG
CCCGGAGCCCGCTTACTCTCCGAATGCCAAGATGACGACGAGGGAAGCAATGGGATACTAAGCTAC
AGCCTAAGCCCCAGTCAGCACTTTCGCTGGACATGGGATCGCGGGTTGACGGCAGCGAATACCCGGAG
TTGGTGTGGAGAAAGCACTGGATCGGAACAGCGGCCACCCACCTGCTGGTGCTTACAGCTCGGGAC
GGCGGGCTACCTGCCGCTCAGGAGACGCACAAGTACCATCATTGTGGTGACACAATGACAACGCG
CCTGTATTTGAGCGCTCCGTATACCGACCAAGTTCCAGAGACTGCACCAATGGGACTGTGTTATTC
CGAGTTCAAGCCTTGGATCCAGATGAAGGGTCCAATGGGGAAGTCCAGTACTCCCTAAGCAACAGCAG
CAAGCAGAGCTGCGACACCGCTTTCACGTGCACCCTAAAAGTGGGAGGTGCAAGTAGCTGCTTCACTA
GGTCCGCTGAAACGCTCTTGGAGGCATACATTGAGGCGAGGAGCAAGGTGTCTTTGGTTTAGCTAGC
ACCGCTAAACTGCTGGTGGAGGTGACTGACGTGAACGATCATGCCCCGAACTGGACTTCCTGACTCTT
TCGAACCCAGTACCTGAGGACGCTGCCCTGGCACAGTGATTGCTCTTTAGTGTAAGGATGAAGAC
CTCGATTCTAATGGTAGGGTCAATTTGTGGCATGTCTAGTGCAGGCCCTTTTCAGCTGACGGCTTCTTT
GACAACTACTACAGCTGCTGATTGATGGGCCCTGGACCGGAGCAGATCAGTGAATACCAAGTCTG
ATCACGGCCTCAGATAGTGGCTCACCCCACTTAGCACCCGAAGGACAATCACTGTGTCAAGTTGCTGAT
GTGAATGACAATACACCAAACTTTCCTCAACCCAGCAGGAAGTTCCTGCTGTAAGCAATGGCCCT
GGGGCCTCTCTAGGCCGAGTGTTCGCCAGGACCCGACCTGGGGAAGAAATGGCCTGTCTTATGAG
CTGTTGGATGTTATCTCTGAAGGGCCATCAGCCTCTAGCTTGTGCGAGTGGAATCATCAGTGGGGCC
ATCACTGCCAAAACCTTCCCTTGGACTTTGAGCAGCTCAGGGGGTTTCATTTCGAAGTAGAAGGCCGGAT
GGTGGCATTCTCCAGAGTGCAACAGTGAATAAACTGTTTGTGGTAGATAGGAATGACAATTAT
CCGGTTATCTTGTTCCCTTGCCAGAAATGGTCTGTCCAGTGGAATTTGCCCCGCTCTGCCAGG
ACTGGACACTTGGTCACAAAAGTGGTAGCAGAGGATGCTGACAGTGGTTCTAATGCCTGGCTTCTCTAC
CACATCTCCCGGGCGTCTGACTCTAGTCTCTTTAGAATTCAGCCAATATAGGTGAGCTCCGTACTGCT
CGCTTAGTTCTTCCCACTGATGCAGTTAAGCAGAGGGTGGTGGTAGTGGTTCGGGACCATGGAGACCCA
CCACTTTCCTCTCTGTCACTCTGGGTGTGCTGTTGAGCAACTCTGTCCCTCAGTTACTTCCAGACTTT
GAAGATGTCTGGGAACAGGAGGGCAGCTTTCTGCCAGAACTGTATTTAGTAATTGCCTTGGCTTGT
ATTTCTTTTTTATTTCTGGGGTGCTTACTTTTCTCGTGTGTACCAAGTTGCACCAGAGCCAGGCTGT
TGCGCTCAGAGCTGCTGTGCTCTACAGAGGATCTGAGGTATGGAAGTAAGATGGTTTCAAATCCTTGC
ATGACATCAGCCACCATAGATGTCACTACAGTTGAGAGACTTTCTCAGACTTATCTCTATCGGCCCTCT
CTGGGACTTGGTCTGATAATAACAGTTTGTGTTGCTGGGGAGTACAATGCTGCCGACCTGCGAAAT
CTTGCCACTGGGTAGGACTGAATTTGCCAATATCCTGTATTAGATTCCGAATAGGAAAGGGGATCAC
GCTAATGTCAATGCCATGCCACGACAGCCCAACCTGACTGGCGTTACTCTGCCTCCCTGAGAGCAGGC
ATGCACAGCTCTGTGCACCTAGAGGAGGCTGGCATTCTACGGGCTGGTCCAGGAGGGGCTGATCAGCAG
TGGCCAACAGTATCCAGTGCAACACCAGAACAGAGGAGGAGAGTGTCCCTCCAGTCGGTGGGGT
GTCAACAGCAACAGCTGGACCTTAAATACGGACAGGCAACCCCAACAATCCGGTCCCGGTGAGTTG
CCCGACAAATTATTATCCAGGATCTCCTGCAATCATCTCCATCCGGCAGGAGCCTACTAACAGCCAA
ATTGACAAAAGTGACTTCATAACCTTCGGCAAAAAGGAGGAGACCAAGAAAAAGAAAAAGAAAG
GGTAACAAGACCCAGGAGAAAAAGAGAAAGGGAACAGCAGCTGACAACAGTGACCAAGTA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:

SgfI-MluI

ACCN:

NM_018898

Insert Size:

2892 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:	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:	<u>NM_018898.3</u>
RefSeq Size:	5475 bp
RefSeq ORF:	2892 bp
Locus ID:	56135
UniProt ID:	<u>Q9HI58</u>
Cytogenetics:	5q31.3
Protein Families:	Transmembrane
MW:	103.9 kDa

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).