

Product datasheet for **RC214714**

PCDHAC1 (NM_031882) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHAC1 (NM_031882) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PCDHAC1
Synonyms:	PCDH-ALPHA-C1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RC214714 representing NM_031882
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTGGGCTGTGGGGTGGCAGTTTTATGTTTGTGGGTTCTCGGGCGTGCAGCGGGACAGCTCGAGT
 ACTCAGTGCCGGAGGAGACGGAGCGGGCGTAGCCGTAGGCAATCTCTCCGCGGACTTGAGGCTGCCAGC
 GGCCGCTATGTCCTCGCGGAACCTTCGTTCTTTCCAGCCACC CGAGCTCTACTTCGGGGTGGATCTA
 CCCAGCGGCAATTTGGTGGTCAGAGAGCCGGGACCGGAACAGCTGTGCAGGGCCAAAGCTGCCTGCG
 TCTTGACCTACGACCTGGTGTCTGAGGACCCGCTGGAGCTGCACAAGATTCGGATTCACGTCCTGGACAC
 CAATGACAACCTCACCTCTCTTCTGCCGGCGAGTGCAGCTGCACATCCCCGAGTTCCTGACGCCCGGA
 GCCCGCTTACTCTCCGAATGCCAAGATGACGACGAGGGAAGCAATGGGATACTAAGCTACAGCCTAA
 GCCCCAGTCAGCACTTTCGCTGGACATGGGATCGCGGGTTGACGGCAGCGAATACCCGGAGTTGGTGT
 GGAGAAAGCACTGGATCGCGAACAGCGGCCACCCACCTGCTGGTGTACAGCTCGGGACGGCGGCTA
 CCTGCCCGCTCAGGAGACGCACAAGTACCATCATTGTGGTGGACACAAATGACAACCGCCTGTATTTG
 AGCGCTCCGTATACCGCACCAAGGTTCCAGAGACTGCACCAATGGGACTGTGTTATTCCGAGTTAAGC
 CTTGGATCCAGATGAAGGGTCCAATGGGGAAGTCCAGTACTCCCTAAGCAACAGCACGCAAGCAGAGCTG
 CGACACCGCTTTCACGTGACCCCTAAAAGTGGGGAGGTGCAAGTGTGCTTACTAGGTCGGCCTGAAA
 CGCTCTTGGAGGCATACATTGAGGCGAGGGACGAAGGTGTCTTTGGTTTGTAGTAGCACCGCTAAACTGCT
 GGTGGAGGTGACTGACGTGAACGATCATGCCCCGAACGGACTTCTGACTCTTTCGAACCCAGTACCT
 GAGGACGCTGCCCTGGCACAGTGATTGCTCTCTTTAGTGTAAAGGATGAAGACCTCGATTCTAATGGTA
 GGGTCAATTTGGGCATGTCTAGTGCAGGCCCTTTTCAGCTGACGGCTTCTTTGACAACACTACAGCCT
 GCTGATTGATGGGCCCTGGACCGGGAGCAGATCAGTGAATACCAAGTCCCTGATCACGGCCTCAGATAGT
 GGCTACCCCCACTTAGCACCCGAAGACAATCACTGTGTGAGTTGCTGATGTGAATGACAATACACCAA
 ACTTCTCAACCCAGCAGGAACCTTTCGTTGCTGAAAACAATGGCCCTGGGGCCTCTCTAGGCCGAGT
 GTTTGCCAGGACCCCGACCTGGGGAAGAATGGCCTTGTCTTTATGAGCTGTTGGATGTATCTCTGAA
 GGGCCATCAGCCTCTAGCTTGTGGCAGTGAATCATCCAGTGGGGCCATCACTGCCAAAACCTCTTTG
 ACTTTGAGCAGCTCAGGGGGTTTCATTTCCAAGTAGAAGGCCGGATGGTGGCATTCTCCCAAGTGC
 AACAGTGACTATAAACTGTTTGTGGTAGATAGGAATGACAATTATCCGGTTATCTTGTTCCTTGCCC
 AGAAATGGTTCTGTCCCAGTGGAAATGTGCCCGCTCTGCCAGGACTGGACACTTGGTCACAAAAGTGG
 TAGCAGAGGATGCTGACAGTGGTTCTAATGCCTGGCTTCTACCACATCTCCCGGGCCTGACTCTAG
 TCTCTTTAGAATTCAGCCAATATAGGTGAGCTCCGACTGCTCGCTTAGTTCTTCCCACTGATGCAATT
 AAGCAGAGGGTGGTGGTGTAGTGGTTCGGGACCATGGAGACCCACACTTTCCTCTCTGCTACTCTGGGTG
 TGCTGTTGAGCAACTCTGTCCCTCAGTACTTCCAGACTTTGAAGATGTCTGGGAACCAGGAGGGCAGCT
 TTCTGCCAGAACTTGATTTAGTAATTCCTTGGCTTGTATTTCTTTTATTTCTGGGGTGTACTT
 TTCTTCGTGTGTACCAAGTTGCACCAGAGCCAGGCTGTTGCGCTCAGAGCTGCTGCTACAGAGG
 ATCTGAGGTATGGAAGTAAGATGGTTTCAAATCCTTGCATGACATCAGCCACCATAGATGCTACTACAGT
 TGAGAGACTTTCTCAGACTTATCTCTATCGGGCCTCTCTGGGACTTGGTCTGATAATAACAGTTTGCTG
 TTGCGTGGGGAGTACAATGCTGCCGACCTGCGAAATCTTGCCACTGGGGTAGGACTGAATTTGCCAATAT
 CCTGTATTCAGATTTCGAATAGGAAAGGGATCACGCTAATGTCAATGCCATGGTAAGCAAATTTTATGG
 AATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC214714 representing NM_031882
Red=Cloning site Green=Tags(s)

MVGGVAVLCLWVSCGAAAGQLEYSVPEETERGVAVGNLSADLRLPAAAMSSRNFRFLSSHRELYFGVDL
PSGNLVVREPADREQLCRAKAACVLTVDLPLELHKIRIHVLDTNDNSPLFPAGDVQLHIPEFLTPG
ARFTLPNAQDDDEGSNGILSYSLSPSQHFRLDMGSRVDGSEYPELVLEKALDREQRATHLLVLTARDGGL
PARSGDAQVTIIIVVDTNDNAPVFERSVYRTKVPETAPNGTVLFRVQALDPDEGSNGEVQYSLSNSTQAE
RHRFHVHPKSGEVQVAASLGPPETLLEAYIEARDEGVFGLASTAKLLVEVTDVNDHAPELDFLTLNPNVP
EDAAPGTVIALFSVKDEDLDSNGRVICGMSSAGPFQLTASFDNYYSLLIDGPLDREQISEYQVLITASDS
GSPPLSTRRTITVSVADVNDNTPNFPQPQQLFVAENNGPGASLGRVFAQDPDLGKNGLSYELLVDVISE
GPSASSLLAVESSGAI TAKTSFDQELRGFHFQVEGRDGGIPPRSATVTINLFVVDNRNDNYPVILFPLP
RNGSVPEIVPRSARTGHLVTKVAEDADSGSNAWLSYHISRASDSSLFRISANIGELRTARLVLPDVA
KQRVVVVVRDHGDPPLSSSVTLGVLLSNSVPQLLPDFEDVWEPGGQLSAQNLYLVIALACISFLFLGCLL
FFVCTKLHQSPGCCAQSCCRSTEDLRYGSKMVSNPCMTSATIDVTTVERLSQTYLYRASLGLGSDNNSLL
LRGEYNAADLRNLATGVGLNLPISCIQIRNRKGDHANVNAMVSKFYGI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_031882

ORF Size: 2454 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

RefSeq: [NM_031882.3](#)

RefSeq Size: 3084 bp

RefSeq ORF: 2457 bp

Locus ID: 56135

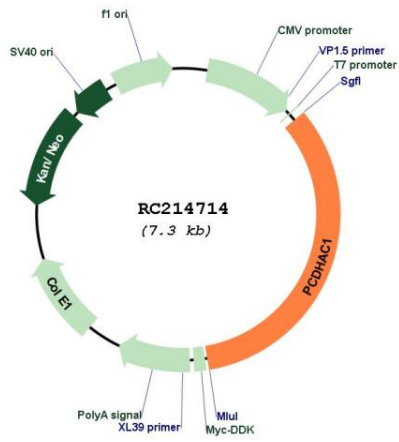
Cytogenetics: 5q31.3

Protein Families: Transmembrane

MW: 86.5 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]

Product images:



Circular map for RC214714