

Product datasheet for **RC220820**

PCDHA6 (NM_031849) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHA6 (NM_031849) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PCDHA6
Synonyms:	CNR2; CNRN2; CNRS2; CRNR2; PCDH-ALPHA6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC220820 representing NM_031849
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGTTTACCCCGGAGGATAGATTGGGAAAGCAATGTCTGCTCCTCCCGCTTCTGCTCCTCGCAGCCT
GGAAGGTGGGAGCGGCCAGCTCCACTACTCCGTACCCGAGGAGGCCAAACACGGCACCTTCGTGGGCCG
GATCGCGCAGGACCTGGGGCTGGAGCTGGCGGAGCTGGTGCCGCGCTTTCAGGATGGCCTCCAAAGAC
CGCGAGGACCTTCTGGAGGTAATCTGCAGAATGGCATTGTTGTTGTGAATTCTCGGATCGACCGGAGG
AGCTGTGCGGGCGGAGCGCGGAGTGCAGCATCCACCTGGAGGTGATCGTGGACAGGCCGCTGCAGGTTTT
CCATGTGGACGTGGAGGTGAGGGACATTAACGACAACCCGCCCTTGTCCCGGTAGAGGAACAAAGAGTG
CTGATTTACGAATCTAGGCTGCCAGATTCTGTGTTTCCACTGGAGGGCGCGTCCGATGCAGATGTTGGCT
CAAATTCATCTAACCTATAAACTCAGTCTAGCGAATACTTCGGGCTAGATGTAAAAATAAACAGTGA
TGACAATAAACAAATTGGGCTCTTATTAAGAAATCCTTGGACAGAGAGGAAGCTCTGCACACAATTA
TTCTGACAGCCACAGATGGGGGCAAACCTGAGCTCACAGGCACTGTTACAGCTGTGGTACAGTGTGG
ATGTGAATGATAATGCTCCCACTTTCGAACAGTCTGAATACGAAGTAAGAATATTCGAAAATGCAGACAA
CGGAACAACAGTTATCAGACTGAATGCTTCTGATCGGGATGAAGGAGCGAATGGGGCAATTCATATTCT
TTAATAGCCTTGTTCAGCCATGGTTATTGACCACTTATGATAGATCGAAATACGGGAGAAAATAGTGA
TTCGGGGTAATTTGGATTTTGAACAAGAAAATTAACAAAATCCTATTGACGCCACGGACAAAAGGCCA
TCCTCCATGGCGGGTATTGCACCGTTTTAGTGAGAAATTTGGATAAAAATGATAACGTCCCTGAGATA
GCACTGACTTCTTATCCTTGCCTGTACGTGAAGACGCTCAATTTGGTACTGTATCGCCCTAATTAGCG
TGAACGACCTCGATTAGGTGCCAACGGGAGGTGAAGTCTGCTGACGCTCACGCTCACGCTCCCTTTCAAGCT
GGTGTCCACCTTCAAGAATTACTACTCGTTGGTGTGGACAGTGCCTGGACCGGAGAGCGTGTGGCC
TATGAGTTGGTGGTAACCGCGCGGGACGGGGCTCGCCTTCGCTGTGGGCCACCGCCAGCTTGTCTGTGG
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CAACCCGCGGGCTGCCACATCTTACGGTGTCTGCGCGAGACGCGGACGCGCAGGAGAACGCGTGGTG
TCCTACTCGTGGTGGAGCGGGGTGGGCGAGCGCGCTTGTGAGCTACATTTCCGTTGCACGCGGAGA
GCGGCAAGGTGTACGCGCTGCAGCCGCTGGACCACGAGGAGCTAGAGCTGCTGCAGTTTCAGCCACGACA
GCCCAACCCTGACTGGCCTTACTCTGCCTCCCTGAGAGCAGGCATGCACAGCTCTGTGCACCTAGAGGAG
GCTGGCATTCTACGGGCTGGTCCAGGAGGCCTGATCAGCAGTGGCCAACAGTATCCAGTGCACACCAG
AACCAGAGGCAGGAGAAGTGTCCCTCCAGTCCGTGCGGGTGTCAACAGCAACAGCTGGACCTTTAATA
CGGACCAGGCAACCCCAACAATCCGGTCCCGGTGAGTTGCCCGACAAATTCATTATCCAGGATCTCCT
GCAATCATCTCCATCCGGCAGGAGCCTACTAACAGCAAATTGACAAAAGTGACTTCATAACCTTCGGCA
AAAAGGAGGAGACCAAGAAAAAGAAAAAGAAAGGGTAACAAGACCCAGGAGAAAAAGAGAAAGG
GAACAGCAGACTGACAACAGTGACCAG

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC220820 representing NM_031849
Red=Cloning site Green=Tags(s)

MVFTPEDRLGKQCLLLPLLLLAAWKVGSGQLHYSVPPEAKHGTFVGRIAQDLGLELAELVPRLFRMASKD
 REDLLEVNLRNGILFVNSRIDREELCGRSAECSIHLEVI VDRPLQVFHVDVEVRDINDNPPLFPVEEQRV
 LIYESRLPDSVFPLEGASDADVGSNSILTYKLSSEYFGLDVKINSDDNKQIGLLKKSLDREEAPAHNL
 FLTATDGGKPELGTGVQLLVTVLDVNDNAPTFEQSEYEVRI FENADNGTTVIRLNASDRDEGANGAISYS
 FNLSLVAAMVIDHFSIDRNTGEIVIRGNLDFEQENLYKILIDATDKGHPPMAGHCTVLRILDKNDNVPEI
 ALTSLSLPVREDAQFGTVIALISVNDLDSGANGQVNCSLTPHVPFKLVSTFKNYYSLVLDSDALDRESVSA
 YELVVTARDGGSPSLWATASLSVEVADMNDNAPAFAPQPEYTVFVKENPPGCHIFTVSARDADAQENALV
 SYSLVERRVGERALSSYISVHAESGKVYALQPLDHEELELLQFQPRQPNPDWRYASLRAGMHSSVHLEE
 AGILRAGPGPDQWPTVSSATPEPEAGEVSPVVGAGVNSNSWTFKYGPGNPKQSGPGELPDKFIIPGSP
 AII SIRQPTNSQIDKSDFITFGKKEETKTKKKKKKGNKTQEKKEGNSTTDNSDQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_031849

ORF Size: 2058 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_031849.3](#)

RefSeq Size: 4495 bp

RefSeq ORF: 2061 bp

Locus ID: 56142

UniProt ID: [Q9UN73](#)

Cytogenetics: 5q31.3

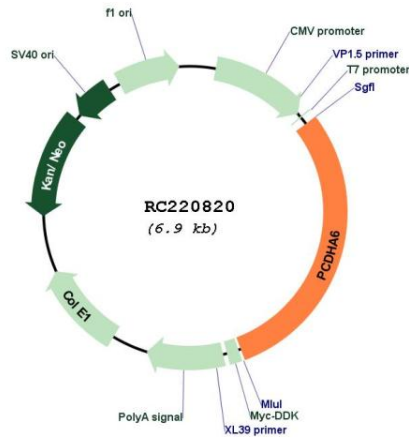
Domains: CA

Protein Families: Secreted Protein, Transmembrane

MW: 72 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 RC220820