

Product datasheet for **RG220820**

PCDHA6 (NM_031849) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHA6 (NM_031849) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PCDHA6
Synonyms:	CNR2; CNRN2; CNRS2; CRNR2; PCDH-ALPHA6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG220820 representing NM_031849
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGTGTTTACCCCGGAGGATAGATTGGGAAAGCAATGTCTGCTCCTCCGCTTCTGCTCCTCGCAGCCT
 GGAAGGTGGGAGCGGCCAGCTCCACTACTCCGTACCCGAGGAGGCCAAACACGGCACCTTCGTGGGCCG
 GATCGCGCAGGACCTGGGGCTGGAGCTGGCGGAGCTGGTGCCGCGCTGTTTCAGGATGGCCTCAAAGAC
 CGCGAGGACCTTCTGGAGGTAATCTGCAGAATGGCATTGTTGTTGTGAATTCTCGGATCGACCGGAGG
 AGCTGTGCGGGCGGAGCGCGGAGTGCAGCATCCACCTGGAGGTGATCGTGGACAGGCCGCTGCAGGTTTT
 CCATGTGGACGTGGAGGTGAGGGACATTAACGACAACCCGCCCTTGTCCCGGTAGAGGAACAAAGAGTG
 CTGATTTACGAATCTAGGCTGCCAGATTCTGTGTTTCCACTGGAGGGCGCGTCCGATGCAGATGTTGGCT
 CAAATTCATCTAACCTATAAACTCAGTTCTAGCGAATACTTCGGGCTAGATGTAAAAATAACAGTGA
 TGACAATAAACAAATTGGGCTCTTATTAAGAAATCCTTGGACAGAGAGGAAGCTCTGCACACAACCTTA
 TTCTGACAGCCACAGATGGGGGCAAACCTGAGCTCACAGGCACTGTTTCAGCTGCTGGTACAGTGTGG
 ATGTGAATGATAATGCTCCCACTTTCGAACAGTCTGAATACGAAGTAAGAATATTCGAAAATGCAGACAA
 CGGAACAACAGTTATCAGACTGAATGCTTCTGATCGGGATGAAGGAGCGAATGGGGCAATTCATATTCT
 TTTAATAGCCTTGTTCAGCCATGGTTATTGACCACTTATAGCATAGATCGAAATACGGGAGAAAATAGTGA
 TTCGGGGTAATTTGGATTTTGAACAAGAAAACCTATACAAAATCCTCATTGACGCCACGGACAAAGGCCA
 TCCTCCCATGGCGGGTATTGCACCGTTTTAGTGAGAAATTTGGATAAAAATGATAACGTCCCTGAGATA
 GCACTGACTTCCTTATCCTTGCCTGTACGTGAAGACGCTCAATTTGGTACTGTATCGCCCTAATTAGCG
 TGAACGACCTCGATTAGGTGCCAACGGCAGGTGAACGCTCGCTGACGCCTCACGTCCCTTTCAAGCT
 GGTGTCCACCTTCAAGAATTACTACTCGTTGGTGTGGACAGTGCCTGGACCGGAGAGCGTGTGGCC
 TATGAGTTGGTGGTAACCGCGCGGGACGGGGCTCGCCTTCGCTGTGGGCCACCGCCAGCTTGTCTGTGG
 AGGTGGCCGACATGAATGACAATGCTCCGGCGTTCGCGCAGCCGAGTACACAGTGTTCGTGAAGGAGAA
 CAACCCGCGGGCTGCCACATCTTACGGTGTCTGCGCGAGACGCGGACGCGCAGGAGAACGCGTGGTG
 TCCTACTCGTGGTGGAGCGGGGTGGGCGAGCGCGTTCGAGCTACATTTCCGTTGCACGCGGAGA
 GCGGCAAGGTGTACGCGCTGCAGCCGCTGGACCACGAGGAGCTAGAGCTGCTGCAGTTTCAGCCACGACA
 GCCCAACCCTGACTGGCCTTACTCTGCCTCCCTGAGAGCAGGCATGCACAGCTCTGTGCACCTAGAGGAG
 GCTGGCATTCTACGGGCTGGTCCAGGAGGCCTGATCAGCAGTGGCCAACAGTATCCAGTGCACACCAG
 AACCAGAGGCAGGAGAAGTGTCCCTCCAGTCCGTGCGGGTGTCAACAGCAACAGCTGGACCTTTAATA
 CGGACCAGGCAACCCCAAACAATCCGGTCCCGGTGAGTTGCCCGACAAATTCATTATCCAGGATCTCCT
 GCAATCATCTCCATCCGGCAGGAGCCTACTAACAGCAAATTGACAAAAGTGACTTCATAACCTTCGGCA
 AAAAGGAGGAGACCAAGAAAAAGAAAAAGAAAGGGTAACAAGACCCAGGAGAAAAAGAGAAAGG
 GAACAGCAGACTGACAACAGTGACCAG

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG220820 representing NM_031849
 Red=Cloning site Green=Tags(s)

MVFTPEDRLGKQCLLLPLLLLAAWKVGSGQLHYSVP EEA KHGTFVGR IAQDLGLELAELVPRLFRMASKD
 REDLLEVN LQNGILFVNSRIDREELCGRSAECSIHLEVI VDRPLQVFHVDVEVRDINDNP LFPVEEQRV
 LIYESR LPDSVFPLEGASDADVGSNSILTYKLSSEYFGLDVKINSDDNKQIGLL LKSLDREEAPAHNL
 FLTATDGGKPEL TGTVQLLVTVLDVNDNAPT FEQSEYEVRI FENADNGTTVIRLNASDRDEGANGAISYS
 FNSLVAAMVIDHF SIDRNTGEI VIRGNLDFEQENLYKIL IDATDKGHPPMAGHCTV LVRILDKNDNVPEI
 ALTSLSLPVREDAQFGTVIALISVNDLDSGANGQVNC SLTPHVPFKLVSTFKNYSLV LDSALDRESVSA
 YELVVTARDGGSPSLWATASLSVEVADMNDNAPAF AQPEYTVFVKENPPGCHIFTVSARDADAQENALV
 SYSLVERRVGERALSSYISVHAESGKVYALQPLDHEE LELLQFQRPQNPDWRYASLRAGMHSSVHLEE
 AGILRAGPGGPDQWPTVSSATPEPEAGEVSP PVGAGVNSNSWTFKYGPGNPKQSGPGELPKFIIIPGSP
 AII SIRQ EPTNSQIDKSDFITFGKKEETK KKKKKKKGNKTQEKKEGNSTTDNSDQ

TRTRPLE - GFP Tag - V

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](#)

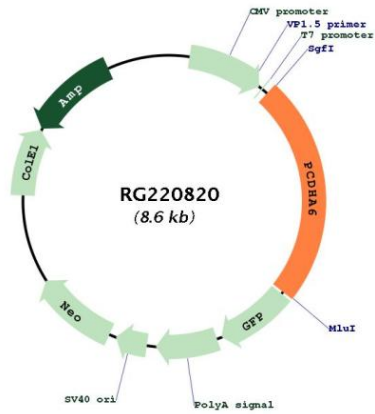
Cytogenetics: 5q31.3

Domains: CA

Protein Families: Secreted Protein, Transmembrane

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 RG220820