

Product datasheet for **RC217914**

PCDHB9 (NM_019119) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHB9 (NM_019119) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PCDHB9
Synonyms:	PCDH-BETA9; PCDH3H
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RC217914 representing NM_019119
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGACCAGGGGTTTCAGCTTCCAAGACAAAGGCAAGTCCTGTTTCTTTTCTTTCTGGGAGTGT
 CCTTGGCAGGTTCTGGGTTTGGACGTTATTCGGTGACTGAGGAAACAGAGAAAGGATCCTTTGTGGTCAA
 TCTGGCAAAGGATCTGGGACTAGCAGAGGGGAGCTGGCTGCAAGGGGAACAGGGTGGTTTCCGATGAT
 AACAAACAATACCTGCTCCTGGATTACATACCGGGAATTTGCTCACAATGAGAACTGGACCGAGAGA
 AGCTGTGTGGCCCTAAAGAGCCCTGTATGCTGTATTTCCAAATTTAATGGATGATCCCTTTCAGATTTA
 CCGGGCTGAGCTGAGAGTCAGGGATATAAATGATCACTCGCCAGTGTTCGGCACAAAGAGATGGTCTTA
 AAAATATCAGAAAATACAGCTGAAGGGACAGCATTTAGACTAGAAAGAGCACAGGATCCAGATGAAGGTC
 ATACAGTATCCAAAACACACGATCAGCTCCAACCTTTTTTCCATATTAATAATAGTGGCAGTGTGA
 AGGCATGATATATCCAGAGCTAGTGTGGACAAAGCACTGGATCGGGAGGAGCAGGAAGAGCTCAGCTTA
 ACCCTCACAGCGCTGGATGGTGGTCTCCATCCAGGCTCTGGGACCTCCACTATACGCATTGTGGTCTTGG
 ATGTCAATGACAATGCCCAACAGTTTGCCAGGCTCTGTATGAGACCCAGGCTCCAGAAAACAGTCCAGT
 AGGGTCCCTTATTGTTAAAGTGTCTGCAGGAGATGCAGACTCAGGAGTCAATGCAGAAGTATCCTATTCA
 TTTTTGATGCTTCTGAAGATATTTTAAACACGTTTCAAATCAATCCTTTTTCTGGGGAAATCTTTCTCA
 GAGAATTGCTTGATTATGAGTTAGTAAATTTTACAAAATAAATATACAGGCAATGGACGGCGGAGGCT
 TTCTGCAAGATGTACAGTTTTGATAAAAGTATTAGATTCCAATGACAATCCTCCTGAACTGATCATATCA
 TCACTTTCCAACCTGTGTGCTGAAAACCTCCTGGGATAGTATTGGCTGTTTTTAAAGATTAAGACAGAG
 ACTCCGGAGAAAATGAAAGACAATTTGCTATGTTCAAGATAATCTGCCTTTTTTCTGAAACCGTCTGT
 TGACAATTTTTACATCCTAATGACTGAAGGTGCACTGGACAGAGAGAGCAAGGCTGAGTACAACATCACC
 ATCACCGTCACTGACTTGGGGACACCCAGGCTGAAAACCGAGCACAGCATAACCTGCAGGTCTCCGACG
 TCAATGACAACGCCCCCGCTTACCCAAACCTCCTACACCCTGTTTCGTCGGGAGAAACAACAGCCCGC
 CCTGCACATCGGCAGTGTGAGCGCCACAGACAGAGACTCAGGCACCAACGCCAGGTCACCTACTCGCTG
 CTGCCGCCAGGACCCACACCTGCCCTCGCCTCCCTGGTCTCCATCAACGCGGACAATGGCCACCTGT
 TTGCCCTCAGGTCGCTGGACTACGAGGCCCTGCAGGCTTTCGACTTCCGCGTGGGCGCTCAGACCGCGG
 CTCCCGGCTTTGAGCAGCGAGGCGCTGGTGCCTGACTGGTGTGGACGCCAACGACAACCTCGCCCTC
 GTGCTGTACCCGCTGCAGAACGGCTCCGCGCCCTGCACCGAGCTGGTGCCTGGGCGGCGCCGAGCCGGCT
 ACCTGGTGACCAAGGTGGTGGCGGTGGACGGCGACTCGGGCCAGAACGCCTGGCTGTCTGACAGCTGT
 CAAGGCCACGGAGCCCGGCTGTTTCGGTGTGTGGGCGCAATGGGGAGGTGCGCACCGCCAGGCTGCTG
 AGCGAGCGCGACGCGCCAAGCACAGGCTGGTGGTGTGTTCAAGGACAATGGCGAGCCTCCTCGCTCGG
 CCACCGCCACGCTGCACGTGCTCCTGGTGGACGGCTTCTCCAGCCCTACCTGCCTCCTCCGGAGGCGGC
 CCCGGCCAGGCCAGGCCGACTTGCTCACCGTACCTGGTGGTGGCGTTGGCCTCGGTGTCTTCGCTC
 TTCTCCTCTCGGTGCTCCTGTTTCGTTGGCGGTGCGGCTGTGCAGGAGGAGCAGGGCGGCTCGGTGGGT
 GCTGCTCGGTGCCGAGGGTCTTTTCCAGGGCATCTGGTGGACGTGAGCGGCACCGGACCCCTGTTCCA
 GAGTACCAGTACGAGGTGTGCTGACTGGAGGTTTCAGAGACCGCGAGTTCAAGTCTTGAAGCCGATT
 ACCCCACCTCCCGCCCATAGGGTGGGAAAGAAATAGAGGAAAATTCTACTCCTCCCAATAGCTTTG
 GATTTAATTAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC217914 representing NM_019119
Red=Cloning site Green=Tags(s)

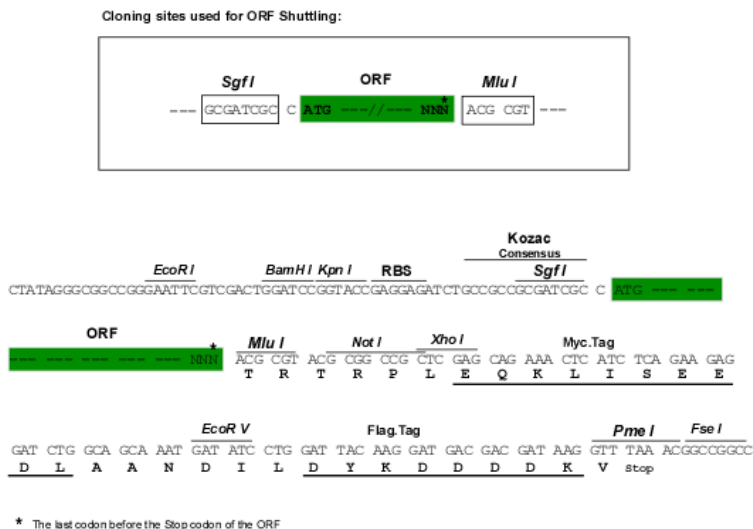
MKTRGFSFPRQRQVLFLLFWGVSLAGSGFGGRYSVTEETEKGFSFVNLAKDLGLAEGELAARGTRVVSDD
NKQYLLLDSTGNLLTNEKLDREKLCGPKEPCMLYFQILMDDPFQIYRAELRVRDINDHSPVFRHKEMVL
KISENTAEGTAFRLERAQDPDEGHNSIQNYTISSNSFFHIKISGSDEGMIYPELVLDKALDREEQEELSL
TLTALDGGSPSRSGTSTIRIVVLDVNDNAPQFAQALYETQAPENSPVGSILVKVSAGDADSGVNAEVSYS
FFDASEDILTTFQINPFSGEIFLRELLDYELVNSYKINIQAMDGGGLSARCTVLIKVLDSNDNPPELIIS
SLSNSVAENSPGIVLAVFKIKDRDSGENGKTICYVDNLPFFLKPSVDNFYILMTEGALDRESKAEYNIT
ITVTDLGTPLKTEHSITLQVSDVNDNAPFTQTSYTLFVRENNSPALHIGSVSATDRDSGTNAQVTYSL
LPPQDPHPLASLVSINADNGHLFALRSLDYEALQAFDFRVGASDRGSPAL SSEALVRVLVLDANDNSPF
VLYPLQNGSAPCTELVPRAAEPGYLVTKVVAVDGDSGQNAWLSYQLLKATEPGLFGVWAHNGEVRTARLL
SERDAAKHRLVVLVKDNGEPPRSATATLHVLLVDGFSQPYLPLPEAAPAQADLLTVYLVVALASVSSL
FLLSVLLFVAVRLCRRSRAASVGRCSVPEGPFPGHLVDVSGTGTLFQSYQYEVCLTGGSETGEFKFLKPI
TPHLPPhrggKEIEENSTLpNSFGFNY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8115_g10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019119

ORF Size: 2391 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_019119.3](#), [NP_061992.2](#)

RefSeq Size: 4220 bp

RefSeq ORF: 2394 bp

Locus ID: 56127

UniProt ID: [Q9Y5E1](#)

Cytogenetics: 5q31.3

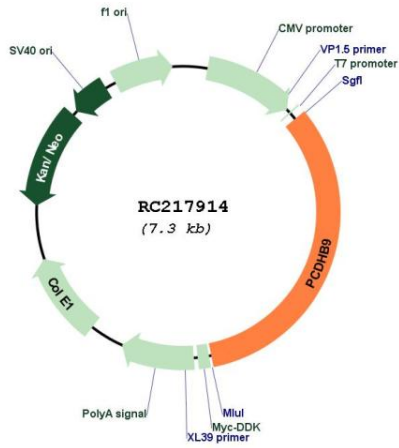
Domains: CA

Protein Families: Transmembrane

MW: 83.9 kDa

Gene Summary: This gene is a member of the protocadherin beta gene cluster, one of three related gene clusters tandemly linked on chromosome five. The gene clusters demonstrate an unusual genomic organization similar to that of B-cell and T-cell receptor gene clusters. The beta cluster contains 16 genes and 3 pseudogenes, each encoding 6 extracellular cadherin domains and a cytoplasmic tail that deviates from others in the cadherin superfamily. The extracellular domains interact in a homophilic manner to specify differential cell-cell connections. Unlike the alpha and gamma clusters, the transcripts from these genes are made up of only one large exon, not sharing common 3' exons as expected. These neural cadherin-like cell adhesion proteins are integral plasma membrane proteins. Their specific functions are unknown but they most likely play a critical role in the establishment and function of specific cell-cell neural connections. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC217914