

Product datasheet for **RC200848**

PCDHB5 (NM_015669) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHB5 (NM_015669) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PCDHB5
Synonyms:	PCDH-BETA5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC200848 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGAGACTGCGCTAGCAAAAACGCCACAGAAAAGCCAAGTTATGTTTCTTGCTATATTGTTGCTTTTGT
GGGAGGCTGGCTCTGAGGCAGTTAGGTATTCCATACCAGAAGAAAACAGAAAGTGGCTATTCTGTGGCCAA
CCTGGCAAAAAGACCTGGGTCTTGGGGTGGGGAACTGGCCACTCGGGGCGCGCAATGCATTACAAAGGA
AACAAAGAGCTCTTGACGCTTGATATAAAGACCGCAATTTGCTTCTATATGAAAACTAGACCGGGAGG
TGATGTGCGGGGCGACAGAACCTGTATATTGCATTTCCAGCTCTTACTAGAAAACTCAGTGCAGTTTTT
TCAAAGTATCTGCAGCTCACAGATATAAATGACCATGCCCCAGAGTTCCAGAGAAGGAAATGCTCCTA
AAAATCCCAGAGAGCACCCAGCCAGGGACTGTGTTTCCCTTAAAAATAGCCAGGACTTTGACATAGGTA
GCAACTGTTCAGAACTACACAATCAGCCAAATTCACACTTTCATGTTGCTACGCATAATCGCGGAGA
TGGCAGAAAATACCCAGAGCTGGTGTGGACAAAAGCGCTGGACCGGGAGGAGCGGCTGAGCTCAGCTTA
ACACTCACTGCACTGGACGGTGGGGCTCCGCCAGGTCCGGGACCACCACAATTCGATTGTCGCTTTGG
ATAATAATGACAACGCCCCGAATTTTTACAATCATTCTATGAGGTACAGGTGCCCGAGAACAGCCCTT
TAACTCCTTAGTTGTCGTTGCTCCGCTCGAGATTTAGATGCAGGAGCATATGGGAGTGTAGCCTATGCT
CTATTCGAAGGCGATGAAGTTACTCAACATTTGTAATAGACGAGAAAACAGCAGAAATTCGCCTGAAAA
GGGCATTGGATTTGAGGCAACTCCATATTATAACGTGGAATTTAGCCACAGATGGTGGGGGCGCTTTC
AGGAAAATGCACTGTGGCTATAGAAGTGGTGGATGTGAATGACAACGCCCTGAAGTCCCATGTCTACG
CTCTCCAGCCCTACCCAGAAAATGCCCGGAACTGTAGTTGCCGTTTTCAAGTGTCTGATCCAGACT
CCGGGGACAACGGTAGGATGATTTGCTCCATCCAGAATGATCTCCCTTTCTTTTGAAGCCACATAAA
AAACTTTTACACCTAGTGACACAGAGAACTGGACAGAGAGAGCCAAAGCCGAGTACAACATCACCATC
ACTGTCACCGACATGGGACACCCAGGCTGAAAACCGAGCACAACATAACGGTCTCGTCTCCGACGTCA
ATGACAACGCCCCGCTTACCCAAACCTCCTACACCTGTTGCTCCGAGAGAACAACAGCCCGCCCT
GCACATCGGCAGTGTGAGCGCCACAGACAGAGACTCAGGCACCAACGCCAGGTACCTACTCGTGCTG
CCGCCCCAGAATCCACACTGCGCTCGCTCCCTGGTCTCCATCAACGCGGACAACGGCCACTGTTT
CCCTCAGGTGCTGGACTACGAGGCCCTGCAGGCGTTCGAGTTCGCGTGGGAGCCACAGACCGCGGCTC
CCCGCGCTGAGCAGCGAGGCGCTGGTGCAGGCTGGTGTGGACGCCAACGACAACCTCGCCCTTCGTG
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TGGTGACCAAGGTGGTGGCGGTGACGGTGACTCGGGCCAGAACGCCCTGGCTGTGCTACAGCTGCTCAA
GGCCACGGAGCCCGGGCTGTTACAGCATGTGGGCGCACAATGGCGAGGTGCGCACCCGCCAGGCTGCTGAGC
GAGCGCGACGCGGCAAGCACAGGCTGGTGGTGTGGTCAAGGACAATGGCGAGCCTCCGCGCTCGGCCA
CCGCCACGCTGCACGTGCTCCTGGTGGACGGCTTCTCCAGCCCTACCTGCCGCTGCCGAGGCGGCCCC
GGCCACGGCCAGGCGACTCGCTCACTGTCTACCTGGTGGTGGCATTGGCCTCGGTGTCGTCGCTCTTC
CTCTTTTCGGTGTCTGTTGCTGGCAGTGCAGGCTGTGCAGGAGGAGCAGGGCGGCCCGGTCGGTCTG
GCTCGGTGCCGAGGGCCCTTTCCAGGCATCTGGTGGACGTGAGCGGCACCGGACCCATCCAGAG
CTACCACTACGAGGTGTGTTTACCAGGAGACTCAGGGGCGGCGAGTTCAAGTTCCTGAAGCCGATTATT
CCTAACCTTTTGCCCCAGGGCGCTGGTGAAGAAATAGGGAAAACCTGCTGCCTTCCGGAATAGCTTTGGAT
TAAAT

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC200848 protein sequence
Red=Cloning site Green=Tags(s)

METALAKTPQKRQVMFLAIIIIIIWEAGSEAVRYSIPEETESGYSVANLAKDLGLGVGELATRGARMHYKG
NKELLQLDIKTGNLLL YEKLDREVMCGATEPCILHFQLLEENPVQFFQTDLQLTDINDHAPEFPEKEMLL
KIPESTQPGTVFPLKIAQDFDIGSNTVQNYTISPNSHFHVATHNRGDGRKYPELVLDKALDREERPELSL
TLTALDGGAPPRSGTTTTIRIVVLDNNDNAPEFLQSFYEVQVPENSPLNSLVVVVSARDLDAGAYGSVAYA
LFQGDVETQPFVIDEKTAEIRLKRALDFEATPYNVEIVATDGGGLSGKCTVAIEVVDVNDNAPELTMST
LSSPTPENAPETVVAVFVSDPDSGDNGRMICSIQNDLPFLLKPTLKNFYTLVTQRTLDRESQAEYNITI
TVTDMGTPRLKTEHNITVLVSDVNDNAPFTQTSYTLFVRENNSPALHIGSVSATDRDSGTNAQVTYSLL
PPQNPHLRLASLV SINADNGHLFALRSLDYEALQAFEFVVGATDRGSPALSSEALVRVLDANDNSPFV
LYPLQNGSAPCTELVPRAAEPGYLVTKVAVDGDGSGQNAWLSYQLLKATEPGLFSMWAHNGEVRTARLLS
ERDAAKHRLVVLVKDNGEPPRSATATLHVLLVDGFSQPYPPLPEAAPAQADSLTVYLVVALASVSSLF
LFSVLLFVAVRLCRRSRAAPVGRCSVPEGPFPGHLVDVSGTGTL SQSYHYEVCLTGDGSGAGEFKFLKPII
PNLLPQGAGEEIGKTAAFRNSFGLN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6081_e02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015669

ORF Size: 2385 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_015669.5](#)

RefSeq Size: 2926 bp

RefSeq ORF: 2388 bp

Locus ID: 26167

UniProt ID: [Q9Y5E4](#)

Cytogenetics: 5q31.3

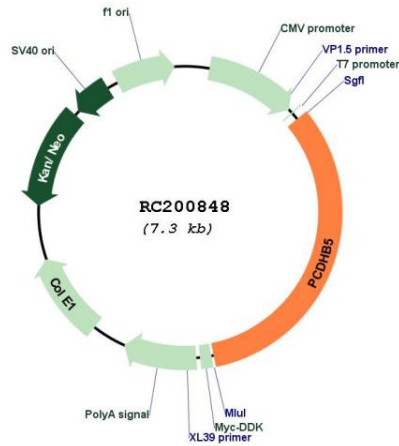
Domains: CA

Protein Families: Druggable Genome, Transmembrane

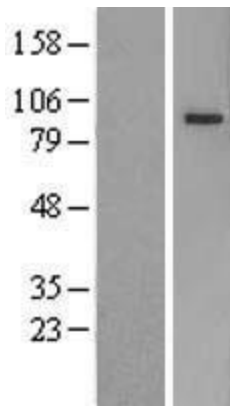
MW: 86.4 kDa

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 RC200848



Western blot validation of overexpression lysate (Cat# [LY414358]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200848 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).