

Product datasheet for **RC205152**

PCDHB10 (NM_018930) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHB10 (NM_018930) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PCDHB10
Synonyms:	PCDH-BETA10; PCHB10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC205152 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTGTCAGAGAGTTGTGCTTCCCAAGACAAAGGCAAGTCCTGTTTCTTTTTCTTTTTGGGGAGTGT
CCTTGGCAGGTTCTGGGTTTGGACGTTATTCGGTGACTGAGGAAACAGAGAAAGGATCCTTTGTGGTCAA
TCTGGCAAAGGATCTGGGACTAGCAGAGGGGAGCTGGCTGCAAGGGGAACAGGGTGGTTTCCGATGAT
AACAAACAATACCTGCTCCTGGATTACATACCGGGAATTTGCTCACAAATGAGAAACTGGACCGAGAGA
AGCTGTGTGGCCCTAAAGAGCCCTGTATGCTGTATTTCCAAATTTAATGGATGATCCCTTTCCAGATTTA
CCGGGCTGAGCTGAGAGTCAGGGATATAAATGATCACGCGCCAGTATTTCCAGGACAAAGAAACAGTCTTA
AAAATATCAGAAAATACAGCTGAAGGGACAGCATTTAGACTAGAAAGAGCACAGGATCCAGATGGAGGAC
TTAACGGTATCCAAAACACACGATCAGCCCAACTCTTTTTCCATATTAACATTAGTGGCGGTGATGA
AGGCATGATATATCCAGAGCTAGTGTGGACAAAGCACTGGATCGGGAGGAGCAGGGAGAGCTCAGCTTA
ACCTCACAGCGCTGGATGGTGGTCTCCATCCAGGTCTGGGACCTCTACTGTACGCATCGTTGTCTTGG
ACGTCAATGACAATGCCCAACAGTTTGGCCAGGCTCTGTATGAGACCCAGGCTCCAGAAAACAGCCCAT
TGGGTTCCCTATTGTTAAGGTATGGGCAGAAGATGTAGACTCTGGAGTCAACGCGGAAGTATCCTATTCA
TTTTTTGATGCCTCAGAAAATATCGAACAACTTTCAAATCAATCCTTTTTCTGGGGAAATCTTTCTCA
GAGAATTGCTTGATTATGAGTTAGTAAATCTTACAAAATAAATATACAGGCAATGGACGGTGGAGGCT
TTCTGCAAGATGTAGGGTTTTAGTGAAGTATTGGACCAATGACAATCCCCGTAAGTATCGTATCA
TCATTTTCCAACCTCTGTGTGAGAAATCTCCTGAGACGCCGCTGGCTGTTTTAAGATTAATGACAGAG
ACTCTGGAGAAAATGAAAAGATGGTTTGGTACATTCAAGAGAATCTGCCATTCTACTAAAACCTTCTGT
GGAGAATTTTTACATCCTAATTACAGAAGCGCGCTGGACAGAGAGATCAGAGCCGAGTACAACATCACT
ATCACCGTCACTGACTTGGGGACACCCAGGCTGAAAACCGAGCACAACATAACGGTCTGTCTCCGACG
TCAATGACAACGCCCCCGCCTTACCCAAACCTCTACACCCTGTTCTCGCGGAGAACAACAGCCCGC
CCTGCACATCGGCAGCGTCAGCGCCACAGACAGAGACTCGGGACCAACGCCAGGTCACCTACTCGCTG
CTGCCGCCCAAGACCCGCACCTGCCCTCGCCTCCCTGGTCTCCATCAACGCGGACAACGGCCACCTGT
TCGCCCTCAGGTCGCTGGACTACGAGGCCCTGCAGGCTTTCGAGTTCGCGTGGGCGCCACAGACCGCG
CTCCCCGCGCTGAGCAGAGAGGCGCTGGTGCCTGTGGTGTGGACGCCAACGACAACCTCGCCCTC
GTGCTGTACCCGCTGCAGAACGGCTCCGCGCCCTGCACCAGCTGGTGCCTGGGCGGCCGAGCCGGCT
ACCTGGTGACCAAGGTGGTGGCGGTGGACGGCGACTCGGGCCAGAACGCCTGGCTGTCTGACAGCTGT
CAAGGCCACGGAGCCCGGGCTGTTCCGGTGTGGGCGCACAATGGGGAGGTGCGCACCGCCAGGCTGCTG
AGCGAGCGCGACGCAGCAAGCACAGGCTCGTGGTGTGTTCAAGGACAATGGCGAGCCTCCTCGCTCGG
CCACCGCCACGCTGCACTTGTCTCCTGGTGGACGGCTTCTCCAGCCCTACCTGCCTCTCCCGGAGGCGGC
CCCGGCCAGGCCAGGCCGAGGCCGACTTGTACCCGCTACCTGGTGGTGGCGTTGGCCTCGGTGTCT
TCGCTCTTCTCCTCTCGGTGCTCCTGTTCGTGGCGGTGCGGCTGTGCAGGAGGAGCAGGGCGCCCTCG
TGGGTGCTGCTCGTGCCCGAGGGTCTTTTCCAGGGCATCTGGTGGACGTGAGGGCGCTGAGACCCT
GTCCCAGAGCTACAGTATGAGGTGTCTGACGGGAGGCCCGGGACCAGTGAGTTCAAGTTCTTGAAA
CCAGTTATTTCCGATATTCAGGCACAGGGCCCTGGGAGGAAGGGTGAAGAAAATTCACCTTCCGAAATA
GCTTTGGATTTAATATTCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC205152 protein sequence
Red=Cloning site Green=Tags(s)

MAVRELCFPRQRQVLFVFLFWGVSLAGSGFGGRYSVTEETEKGFSFVNLAKDLGLAEGELAARGTRVVSDD
NKQYLLLDSTGNLLTNEKLDREKLCGPKEPCMLYFQILMDDPFQIYRAELRVRDINDHAPVFQDKETVL
KISENTAEGTAFRLERAQDPDGGGLNGIQNYTISPNSFFHINISGGDEGMIYPELVLDKALDREEQGELSL
TLTALDGGSPSRSGTSTVRIVVLDVNDNAPQFAQALYETQAPENSPIGFLIVKVAEDVDSGVNAEVSYS
FFDASENIRTTTFQINPFSGEIFLRELLDYELVNSYKINIQAMDGGGLSARCRVLEVLDTNDNPPELIVS
SFSNSVAENSPETPLAVFKINDRDSGENGMVCYIQENLPFLLKPSVENFYILITEGALDREIRAENIT
ITVTDLGTPLKTEHNITVLSVDVNDNAPFTQTSYTLFVRENNSPALHIGSVSATDRDSGTNAQVTYSL
LPPQDPHPLASLVINADNGHLFALRSLDYEALQAFEFVVGATDRGSPAL SREALVRVLVLDANDNSPF
VLYPLQNGSAPCTELVPRAAEPGYLVTKVVAVDGDSGQNAWLSYQLLKATEPGLFGVWAHNGEVRTARLL
SERDAAKHRLVVLVKDNGEPPRSATATLHLLLVDGFSQPYLPLPEAAPAQAEADLLTVYLVVALASVS
SLFLLSVLLFVAVRLCRRSRAASVGRCSVPEGPFPGHLVDVIRGAETLSQSYQYEVCLTGGPGTSEFKFLK
PVISDIQAQGPGRKGEENSTFRNSFGFNIQ

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6290_d08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018930

ORF Size: 2400 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_018930.4](#)

RefSeq Size: 3284 bp

RefSeq ORF: 2403 bp

Locus ID: 56126

UniProt ID: [Q9UN67](#)

Cytogenetics: 5q31.3

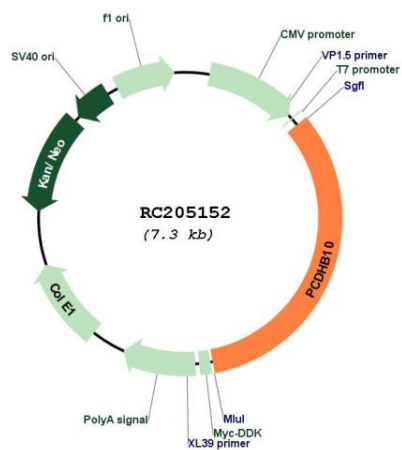
Domains: CA

Protein Families: Transmembrane

MW: 87.6 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 RC205152