

Product datasheet for **RG205152**

PCDHB10 (NM_018930) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHB10 (NM_018930) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PCDHB10
Synonyms:	PCDH-BETA10; PCHB10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG205152 representing NM_018930
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGTCAGAGAGTTGTGCTTCCCAAGACAAAGGCAAGTCCTGTTTCTTTTTCTTTTTGGGGAGTGT
 CCTTGGCAGGTTCTGGGTTTGGACGTTATTCGGTGACTGAGGAAACAGAGAAAGGATCCTTTGTGGTCAA
 TCTGGCAAAGGATCTGGGACTAGCAGAGGGGAGCTGGCTGCAAGGGGAACAGGGTGGTTTCCGATGAT
 AACAAACAATACCTGCTCCTGGATTACATACCGGGAATTTGCTCACAAATGAGAAACTGGACCGAGAGA
 AGCTGTGTGGCCCTAAAGAGCCCTGTATGCTGTATTTCCAAATTTAATGGATGATCCCTTTAGATTTA
 CCGGGCTGAGCTGAGAGTCAGGGATATAAATGATCACGCGCCAGTATTTCCAGGACAAAGAAACAGTCTTA
 AAAATATCAGAAAATACAGCTGAAGGGACAGCATTTAGACTAGAAAGAGCACAGGATCCAGATGGAGGAC
 TTAACGGTATCCAAAACACACGATCAGCCCAACTCTTTTTCCATATTAACATTAGTGGCGGTGATGA
 AGGCATGATATATCCAGAGCTAGTGTGGACAAAGCACTGGATCGGGAGGAGCAGGGAGAGCTCAGCTTA
 ACCCTCACAGCGCTGGATGGTGGTCTCCATCCAGGTCTGGGACCTCTACTGTACGCATCGTTGTCTTGG
 ACGTCAATGACAATGCCCAACAGTTTGGCCAGGCTCTGTATGAGACCCAGGCTCCAGAAAACAGCCCAT
 TGGGTTCCCTATTGTTAAGGTATGGGCAGAAGATGTAGACTCTGGAGTCAACGCGGAAGTATCCTATTCA
 TTTTTGATGCCTCAGAAAATATCGAACAACTTTCAAATCAATCCTTTTTCTGGGGAAATCTTTCTCA
 GAGAATTGCTTGATTATGAGTTAGTAAATTTTACAAAATAAATATACAGGCAATGGACGGTGGAGGCCCT
 TTCTGCAAGATGTAGGGTTTTAGTGAAGTATTGGACCAATGACAATCCCCGTAAGTATCGTATCA
 TCATTTTCCAACCTCTGTGTGAGAAATTCCTGAGACGCCGCTGGCTGTTTTAAGATTAATGACAGAG
 ACTCTGGAGAAAATGAAAGATGGTTTGGTACATTCAAGAGAATCTGCCATTCTACTAAAACCTTCTGT
 GGAGAATTTTTACATCCTAATTACAGAAGCGCGCTGGACAGAGAGATCAGAGCCGAGTACAACATCACT
 ATCACCGTCACTGACTTGGGGACACCCAGGCTGAAAACCGAGCACAACATAACGGTCTGTCTCCGACG
 TCAATGACAACGCCCCCGCCTTACCCAAACCTCTACACCCTGTTCTCGCGGAGAACAACAGCCCGC
 CCTGCACATCGGCAGCGTCAGCGCCACAGACAGAGACTCGGGACCAACGCCAGGTCACTACTCGCTG
 CTGCCGCCCAAGACCCGACCTGCCCTCGCCTCCCTGGTCTCCATCAACGCGGACAACGGCCACCTGT
 TCGCCCTCAGGTCGCTGGACTACGAGGCCCTGCAGGCTTTCGAGTTCGCGTGGGCGCCACAGCCGCG
 CTCCCCGCGCTGAGCAGAGAGGCGCTGGTGCCTGCTGGTGTGACGCCAACGACAACCTCGCCCTC
 GTGCTGTACCCGCTGCAGAACGGCTCCGCGCCCTGCACCGAGCTGGTGCCTGGGCGGCCGAGCCGGCT
 ACCTGGTGACCAAGGTGGTGGCGGTGGACGGCGACTCGGGCCAGAACGCCTGGCTGTCTGACAGCTGT
 CAAGGCCACGGAGCCCGGGCTGTTCCGTGTGTGGGCGCAATGGGGAGGTGCGCACCGCCAGGCTGCTG
 AGCGAGCGCAGCAGCAAGCACAGGCTCGTGGTGTGTTCAAGGACAATGGCGAGCCTCCTCGCTCGG
 CCACCGCCACGCTGCACTTGTCTCCTGGTGGACGGCTTCTCCAGCCCTACCTGCCTCTCCCGAGGCGGC
 CCCGGCCAGGCCAGGCCGAGGCCGACTTGTACCGTCTACCTGGTGGTGGCGTTGGCCTCGGTGTCT
 TCGCTCTTCTCCTCTCGGTGCTCCTGTTCGTGGCGGTGCGGCTGTGCAGGAGGAGCAGGGCGCCCTCG
 TGGGTGCTGCTCGTGGCCGAGGGTCTTTTCCAGGGCATCTGGTGGACGTGAGGGCGCTGAGACCT
 GTCCCAGAGCTACAGTATGAGGTGTCTGACGGGAGGCCCGGACCAGTGAGTTCAAGTTCTTGAAA
 CCAGTTATTTCCGATATTCAGGCACAGGGCCCTGGGAGGAAGGGTGAAGAAAATTCACCTTCCGAAATA
 GCTTTGGATTTAATATTACG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG205152 representing NM_018930
 Red=Cloning site Green=Tags(s)

MAVRELCFPRQRQVFLFLFWGVSLAGSGFGGRYSVTEETEKGFSFVNLAKDLGLAEGELAARGTRVVSDD
 NKQYLLLDSTGNLLTNEKLDREKLCGPKEPCMLYFQILMDDPFQIYRAELRVRDINDHAPVFQDKETVL
 KISENTAEGTAFRLERAQDPDGGGLNGIQNYTISPNSFFHINISGGDEGMIYPELVLDKALDREEQGELSL
 TLTALDGGSPSRSGTSTVRIVVLDVNDNAPQFAQALYETQAPENSPIGFLIVKVWAEDVDSGVNAEVSYS
 FFDASENIRTTTFQINPFSGEIFLRELLDYELVNSYKINIQAMDGGGLSARCRVLEVLDTNDNPPELIVS
 SFSNSVAENSPETPLAVFKINDRDSGENGMVCYIQENLPFLLKPSVENFYILITEGALDREIRAENIT
 ITVTDLGTPLKTEHNITVLSVDVNDNAPFTQTSYTLFVRENNSPALHIGSVSATDRDSGTNAQVTYSL
 LPPQDPHPLASLVSINADNGHLFALRSLDYEALQAFEFVVGATDRGSPAL SREALVRVLVLDANDNSPF
 VLYPLQNGSAPCTELVPRAAEPGYLVTKVVAVDGDSGQNAWLSYQLLKATEPGLFGVWAHNGEVRTARLL
 SERDAAKHRLVVLVKDNGEPPRSATATLHLLLVDGFSQPYLPLPEAAPAQAEADLLTVYLVVALASVS
 SLFLLSVLLFVAVRLCRRSRAASVGRCSVPEGPFPGHLVDVIRGAETLSQSYQYEVCLTGGPGTSEFKFLK
 PVISDIQAQGPGRKGEENSTFRNSFGFNIQ

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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](#)

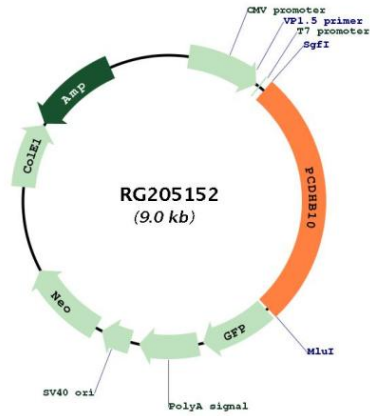
Cytogenetics: 5q31.3

Domains: CA

Protein Families: Transmembrane

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 RG205152