

Product datasheet for **RG218240**

PCDHB2 (NM_018936) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHB2 (NM_018936) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PCDHB2
Synonyms:	PCDH-BETA2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG218240 representing NM_018936
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGCCGGAGAGGGGAAGGAGCGCGTTCCGAAACAAAGGCAAGTCCTGATATTCTTTGTTTTGCTGG
 GCATAGCTCAGGCTAGTTGCCAGCCTAGGCACTATTCACTGGCCGAGGAAACGGAGAGTGCTCCTTTGT
 GGCCAATTTGTTAAAGACCTGGGGCTGGAGATAGGAGAAGTGTGTGAGGGGGCCAGGGTCGTTTCC
 AAAGGAAAAAATGCATTTGCAGTTTCGATAGGCAGACCGGGGATTTGTTGTTAAATGAGAAATTGGACC
 GGGAGGAGCTGTGCGGCCCCACAGAGCCCTGTGTCTACCTTTCCAGGTGTTACTAGAAAATCCCTTGCA
 GTTTTTTCAGGCGGAGCTACGGATTAGGAGCGTAAATGATCATTCCCAAGTTTCTAGACAAAGAAATA
 CTTTTGAAAATTCAGAAAGTATCACTCCTGGAAGTCTTTCTTAATAGAACGTGCCAGGACTTGGATG
 TAGGAACCAACAGTCTCCAAAATTACACAATCAGTCCCAATTTCCACTTTCATCTTAATTTACAAGACAG
 TCTCGATGGCATAATATTACCACAGCTGGTGTGAACAGAGCCCTGGATCGCGAGGAGCAGCCTGAGATC
 AGGTTAACCTTCACAGCGCTAGATGGCGGGAGTCCACCCAGGTCCGGCACGGCCCTGGTACGGATTGAAG
 TTGTGGACATCAATGACAACGTCCAGAGTTTGCAAAGCTGCTCTATGAGGTGCAGATCCCGGAGGACAG
 CCCCCTTGGATCCAGGTTGCCATCGTCTCTGCCAGGGATTTAGACATTGGAAGTAAATGGAGAAATATCT
 TATGCATTTTCCCAAGCATCTGAAGACATTGCAAAACGTTTCGATTAAAGTGCAAAATCGGGAGAACTGC
 TTTTAAGACAGAACTGGATTTGGAATCCATCCAGACATACACAGTAAATATTCAGGCGACAGATGGTGG
 GGGCCTATCTGGAAGTTGTGTGGTATTTGTCCAAGTGATGGATTTGAATGACAATCCTCCGGAACAACT
 ATGTCGACACTTATCAATCAGATCCAGAAAACCTTGACAGGACACCCTCATTGCTGTATTACAGCGTTTCAG
 ATCCTGACTCCGGAGACAACGGAAGGATGGTGTCTCCATCCAAGATGATCTTCTTTTCTTGAAACC
 TTCTGTTGAGAACTTTTACACTCTGGTGATAAGCACGGCCCTGGACCGGGAGACCAGATCCGAATACAAC
 ATCACCATCACCGTCACCGACTTCGGGACACCCAGGCTGAAAACCGAGCAACAATAACCGTGTGGTCT
 CCGACGTCAATGACAACGCCCCGCTTCACCCAAACCTCTACACCCTGTTCTGTCGCGAGAACAACAG
 CCCCCTGTCACATCGGCAGCGTCAGCGCCACAGACAGAGACTCGGGCACCAACGCCCAGGTACCTAC
 TCGCTGCTGCCGCCCCAGGACCCGACCTGCCCTCGCTCCCTGGTCTCCATCAACGCGGACAACGGCC
 ACCTGTTCTGCTCTCCAGTCGCTGGACTACGAGGCCCTGCAGGCGTTTCAGTTCCGCGTGGGCGCCGAGA
 CCGCGGCTCCCCGGCGTTGAGCAGCGAGGCGCTGGTGCCTGCTGGTGTGGACGCCAACGACAACTCG
 CCCTTCGTGCTGTACCCGCTGCAGAACGGCTCCGCGCCCTGCACCGAGCTGGTGGCCCGGGCGGCCGAGC
 CGGGCTACCTGGTGACCAAGGTGGTGGCGGTGGACGGCGACTCGGGCCAGAACGCTGGCTGTCTACCA
 GCTGCTCAAGGCCACGGAGCCCGGGCTGTTCCGGCTGTGGGCGCACAATGGCGAGGTGCGCACCGCCAGG
 CTGCTGAGGGAGCGCGACGCTGCCAAGCAGAGGCTGGTGGTGTGGTCAAGGACAATGGCGAGCCTCCGC
 GCTCGGCCACCGCCACGCTGCACGTGCTCCTGGTGGACGGCTTCTCCAGCCCTACCTGCTGCTCCCGGA
 GGCGGCACCGGCCAGGCCAGGCCGACTTGTCAACGCTACCTGGTGGTGGCGTTGGCCTCGGTGTCT
 TCGCTCTTCTCTCTCGGTGCTCCTGTTCTGGCGGTGCGGCTGTGCAGGAGGAGCAGGGCGCCCTCGG
 TGGGTGCTGCTCGGTGCCGAGGGCCCTTTCCAGGGCAGATGGTGGACGTGAGCGGCACCGGGACCT
 GTCCCAGAGCTACCAATACGAGGTGTGTCTGACTGGAGGCTCCGGGACAAATGAGTTCAAGTTCTGAAG
 CCAATTATCCCAACTTCGTTGCTCAGGGTGCAGAGAGGGTTAGCGAGGCAATCCAGTTTCAGGAAGA
 GCTTTGAATCACT

ACGCGTACGCGGCGGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG218240 representing NM_018936
 Red=Cloning site Green=Tags(s)

MEAGEGKERVPKQRQVLFFVLLGIAQASCQPRHYSVAEETESGSFVANLLKDLGLEIGELAVRGARVVS
 KGKKMHLQFDRQTGDLLLNEKLDREELCGPTEPCVLPFQVLLLENPLQFFQAEIRIRDVNDHSPVFLDKEI
 LLKIPESITPGTTFLIERAQDLVGTNSLQNYTISP NFHFHNLQDSL DGIILPQLVLNRALDREEQPEI
 RLTLTALDGGSPPRSGTALVRIEVDINDNVPEFAKLLYEVQIPEDSPVGSQVAIVSARDLDIGTNGEIS
 YAFSQASEDIRKTFRLSAKSGELLLRQKLD FESIQT YTVNIQATDGGGLSGTCVVFVQVMDLNDNPPELT
 MSTLINQIPENLQDTLIAVFSVSDPDSGDNGRMVCSIQDDL PFFLKPSVENFYTLVISTALDRETRSEYN
 ITITVTDFGTPRLKTEHNITVLVSDVNDNAPFTQTSYTLFVRENNSPALHIGSVSATDRDSGTNAQVTY
 SLLPPQDPHLPLASLV SINADNGHLFALQSLDYEALQAFEF RVGAADRGSPAL SSEALVRVLVLDANDNS
 PFVLYPLQNGSAPCTELVPRAAEPGYLVTKVVAVDGDSGQNAWLSYQLLKATEPGLFGVWAHNGEVRTAR
 LLRERDAAKQRLVVLVKDNGEPPRSATLHVLLVDGFSQPYLLLPEAAPAQADLLTVYLVVALASVS
 SLFLFSVLLFVAVRLCRRSRAASVGRCSVPEGPFPGQMVDVSGTGTL SQSYQYEVCLTGGSGTNEFKFLK
 PIIPNFVAQGAERVSEANPSFRKSFEFT

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfi-MluI

Cloning Scheme:



ACCN:	NM_018936
ORF Size:	2394 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_018936.4](#)

RefSeq Size: 2733 bp

RefSeq ORF: 2397 bp

Locus ID: 56133

UniProt ID: [Q9Y5E7](#)

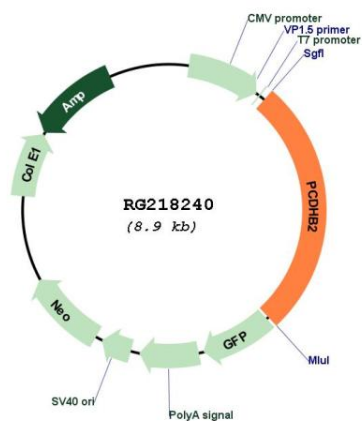
Cytogenetics: 5q31.3

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 RG218240