

Product datasheet for **RG223094**

PCDHB14 (NM_018934) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHB14 (NM_018934) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PCDHB14
Synonyms:	PCDH-BETA14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG223094 representing NM_018934
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGAGATCAGAGGGGCACTCGATCTGCGAAAAAGGCAAGTTCTAATATTCCTTGTCTTGTGGGATTGT
 CTCGGGCAGGTACTGAATCTGCACACTATTCTGTGGCAGAGGAAACAGAAATTGGCTCTTTTGTGGCTAA
 TCTAGCGAGGGACCTAGGGCTGGGGGTGGAGGAGCTGTCTTACGTGAAGCCCGGTAGTGTCTGATGAT
 AATAAAAGTATTTGCACCTTGATTGTGCTGACTGGGAATTTGCTCCTAAATGAGAACTAGACCGAGACG
 AGCTGTGTGGCTCCACCGAGCCCTGTGTCTGCATTTTCAGGTGGTTTGGAAAACCTTTACAGTTTTT
 TCGGTTTGAGCTGTGTGCAAAGACATAATGATCACTCCCTACATTTCTAGACAAGGAAATACTTATT
 AAAATATCAGAAGGTACCACTGTTGGAGCTACCTTTCTAATGGAGAGTGCTCAAGATTTGGATGTCGGAA
 GCAACAGTCTCCAAACTACACAATTAGCCCCAATTCTCACTTCTACATTAATAATCCCGACAGTAGTGA
 CAGAAAGATATACCCAGAGCTGGTCTAGATAGAGCTTTAGATTATGAACAGGAAGCTGAAGTCAAGTGA
 ACATCAATGATAATGCCCTGAGTTTCTCAGAGTCTCTATGAGGTGCAAGTCCCGAGGACAGACCCCT
 TGGCTCCTGGATTGCCACCATCTCAGCTAAGGATCTGGATGCAGGAACTATGAAAAATATCTTACACA
 TTTTCCATGCATCAGAAGATATTCGTAACATTTGAAATTAATCCAATATCTGGGGAAGTTAATTTGA
 GATCACCCCTGGATTTTGAAGTAATACAGTCTACACTATAAATATTCAGGCAACAGATGGTGGGGTCT
 TTCAGGAAATGCACCCTTCTAGTTAAAGTTATGGATATAAACGACAACCCACCAGAAGTGACCATATCG
 TCGATTACAAAGAGAATCCAGAGAATGCCTCAGAGACCCTAGTAGCTCTTTTATGATCCTAGACCAAG
 ACTCTGGAGACAATGGGAGGATGATTGCTCTATTCAAGATAACCTCCCTTTTCTGAAACCGACCTT
 CAAGAACTTTTTCACTCTAGTTTCTGAAAAAGCACTGGACAGAGAGAGCCAAGCCGAGTACAACATCACG
 ATCACCGTCACAGACTTGGGGACACCCAGGCTGAAAACCGAGTACAACATAACCGTGCTGCTCTGACG
 TCAATGACAACGCCCCACCTTCACCCAAACCTCTACACCCTGTTCTGTCGCGGAGAACAACAGCCCCGC
 CCTGCACATCGGCAGCGTCAGCGCCACAGACAGAGACTCAGGCACCAACGCCAGGTCAACTACTCGCTG
 CTGCCGCCCCAGGACCGGCACCTGCCCTCGCTCCTTGGTCTCCATCAACGCGGACAATGGCCACCTGT
 TTGCCCTCAGGTGCTGGACTACGAGGCCCTACAGGAGTTCGAGTTTCGCGTGGGCGCCACAGACCGCGG
 GTCCCCGCGTGTGAGCAGCGAGGCGCTGGTGCGCTGCTGGTGTGGACGCCAACGACAACCTCGCCCTTC
 GTGCTGTACCCGCTGCAGAACGGCTCCGCGCCCTGCACCGAGCTGGTGCCCGGGCGGCCGAGCCGGGCT
 ACCTGGTGACCAAGGTGGTGGCGGTGGACGGCGACTCGGGCCAGAACGCCTGGCTGTCTGTACCAAGCTGT
 CAAGGCCACGGAGCCCGGGCTGTTGGCGGTGTGGGCGCAATGGCGAGGTGCGCACCGCCAGGCTGCTG
 AGCGAGCGCGACGCGCCAAGCACAGGCTGGTGGTGTGGTCAAGGACAATGGCGAGCCTCCTCGCTCGG
 CCACCGCCACGCTGCACGTGCTCCTGGTGGACGGCTTCTCCAGCCCTACCTGCCGCTCCTGAGGCGGC
 CCCGGCCAGGCCAGGCCGACTCCCTCACCGTCTACCTGGTGGTGGCATTGGCCTCGGTGTCTGCTGCTC
 TTCTCTTCTCGGTGCTCCTGTTCTGTCGGGTGCGGCTGTGCAGGAGGAGCAGGGCGGCTCGGTGGGTG
 GCTGCTCGGTGCCGAGGGTCCCTTTCCAGGGCATCTGGTGGACGTGAGCGGCACCGGACCCGTGTCCCA
 GAGCTACCAATACGAGGTGTGTCTGACAGGAGGTTCCGGGACAAATGAGTTCAAATTTCTGAAGCCGATT
 ATCCCCAATTTTCAAGTTCATGACACTGGTAGGAATATGGGGAAATCGAGAATTTTCAAAATAGCTTTG
 GACTTAACATTCAA

ACGCGTACGCGGCGGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG223094 representing NM_018934
 Red=Cloning site Green=Tags(s)

MEIRGALDLRKRQVLIFLVLLGLSRAGTESAHYSVAEETEIGSFVANLARDLGLGVEELSSREARVVSD
 NKKYLHLDLLTGNLLNEKLDRELCGSTEPVLFHFQVLENPLQFFRFELCVKDINDHSPTFLDKEILI
 KISEGTTVGATFLMESAQDLVGSNSLQNYTISPNSHFYIKIPDSSDRKIYPELVLDRALDYEAEALRL
 TLTAVDGGSPPKSGTTLVLIKVLDINDNAPEFPQSLYEVQVPEDRPLGSKIATISAKDLDAAGNYGKISY
 FFHASEDIRKTFEINPISGEVNLRSPLDFEVIQSYTINIQTADGGGLSGKCTLLVKVMDINDNPPEVTIS
 SITKRIPENASETLVALFSILDQDSDNGRMICSIQDNLPFFLKPTFKNFFTLVSEKALDRESQAEYNIT
 ITVTDLGTPLRKTEYNITVLLSDVNDNAPTFTQTSYTLFVRENNSPALHIGSVSATDRDSGTNAQVNYSL
 LPPQDRHLPLASLVINADNGHLFALRSLDYEALQEFVFRVGTDRGSPALSSSEALVRVLVLDANDNSPF
 VLYPLQNGSAPCTELVPRAAEPGYLVTKVVAVDGDSGQNAWLSYQLLKATEPGLFGVWAHNGEVRTARLL
 SERDAAKHRLVVLVKDNGEPPRSATATLHVLLVDGFSQPYLPLPEAAPAQADSLTVYLVVALASVSSL
 FLFSVLLFVAVRLCRRSRAASVGRCSVPEGPFGHLVDVSGTGTLSSQSYQYEVCLTGGSGTNEFKFLKPI
 IPNFQVHDTGRNMGEIENFRNSFGLNIQ

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfi-MluI

Cloning Scheme:



ACCN:	NM_018934
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_018934.3](#)

RefSeq Size: 2793 bp

RefSeq ORF: 2397 bp

Locus ID: 56122

UniProt ID: [Q9Y5E9](#)

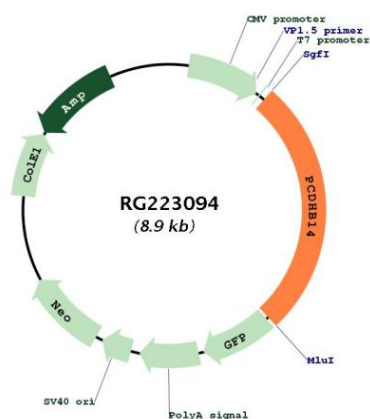
Cytogenetics: 5q31.3

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 RG223094