

Product datasheet for **RG218022**

PCDHB8 (NM_019120) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHB8 (NM_019120) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PCDHB8
Synonyms:	PCDH-BETA8; PCDH3I
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RG218022 representing NM_019120
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGAGGCCAGCGGAAGCTCATTTCAGACAAAGGCAAGTCCTTTTCTCTTTCTCTTTGGGCTTAT
 CTCTGGCGGGCGCGCGAACCTAGAAGCTATTCTGTGGTGGAGGAACTGAGGGCAGCTCCTTTGTCAC
 CAATTTAGCAAAGGACCTGGGTCTGGAGCAGAGGGAATTCTCCAGGCGGGGGTTAGGGTTGTTCCAGA
 GGGAACTACATTTGCAGCTCAATCAGGAGACCGCGATTGTTGCTAAATGAGAAATTGGACCGTG
 AGGATCTGTGCGGTACACAGAGCCCTGTGTGCTACGTTTCCAAGTGTGCTAGAGAGTCCCTTCGAGTT
 TTTTCAAGCTGAGCTGCAAGTAATAGACATAAACGACCACTCTCCAGTATTTCTGGACAAACAAATGTTG
 GTGAAAGTATCAGAGAGCAGTCTCTGGGACTGCGTTTCTCTGAAGAATGCTGAAGACTTAGATATAG
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 CTGCTGCCGCCCAGGATCCGCACCTGCCCTCGCCTCCTGGTCTCCATCAACACAGACAACGGCCACC
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 CGGCTCCCCGGCTTTGAGCAGCGAGGCGCTGGTGCCTGCTGGTGTGACGCCAACGACAACCTCGCCC
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 TCAGAACTATCAGTACGAGGTGTGCTTGGCAGGAGGCTCAGGGACGAATGAGTTCCAGTTCTGAAACCA
 GTATTACCTAATATTCAGGGCCATTCTTTGGGCCAGAAATGGAACAAAACCTCAACTTTAGGAATGGCT
 TTGGTTTCAGCCTTCAGTTAAAG

ACGCGTACGCGGCGGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG218022 representing NM_019120
 Red=Cloning site Green=Tags(s)

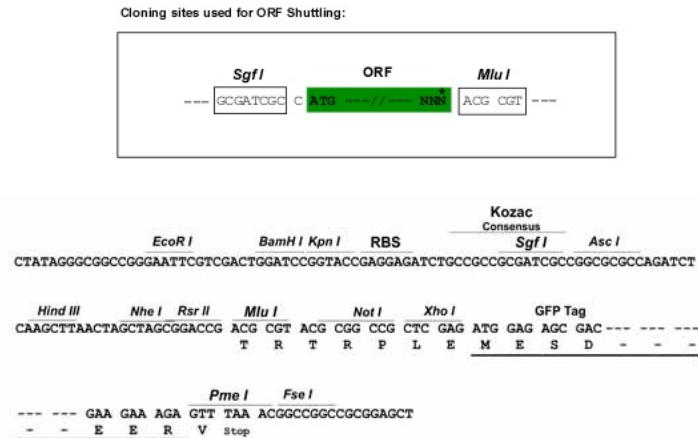
MEASGLICRQRQVLFSFLLLGLSLAGAAEPRSYSVVEETEGSSFVTNLAKDLGLEQREFSRRGVRVVS
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 VKVSESSPPGTAFPLKNAEDLDIGQNNIENYIIISPNSYFRVLTRKRS DGRKYPELVLDKALDREEEAELR
 LTLTALDGGSPPRS GTAQVYIEVVDVNDNAPEFEQPFYRVQISEDSPISFLVVKVSATD VDTGVNGEISY
 SLFQASDEISKTFKVDFLTGEIRLKKQLDFEFQSYEVNIEARDAGGFSGKCTVLIQVIDVNDHAEVMT
 SAFTSPIPENAPETVVALFSVSDLDSENGKISCSIQEDLPFLLKSSVGNFYTLTETPLDRESRAEYNV
 TITVTDLGT PRLTTHLNMTVLVSDVNDNAFTQTSYTLFVRENNSPALHIGSVSATDRDSGTNAQVTYS
 LLPPQDPHLPLASLVSINTDNGHLFALRSLDYEALQAFEFVVGASDRGSPALSSEALVRVLVLDANDNSP
 FVLYPLQNGSAPCTELVPRAAEPGYLVTKVVAVDGDSGQNAWLSYQLLKATEPGLFGVWAHNGEVRTARL
 LSEDAAKQRLVVLVKDNGEPPCSATATLHLLVDGFSQPYLPLPEAAPAQGQADSLTVYLVVALASVSS
 LFLFSVLLFVAVLLCRRSRAASVGRCSVPEGPFPGHLVDVVRTGSLSQNYQYEVCLAGGSGTNEFQFLKP
 VLPNIQGHSGPEMEQNSNFRNGFGFSLQLK

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_019120

ORF Size: 2403 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_019120.3](#), [NP_061993.2](#)

RefSeq Size: 2711 bp

RefSeq ORF: 2406 bp

Locus ID: 56128

UniProt ID: [Q9UN66](#)

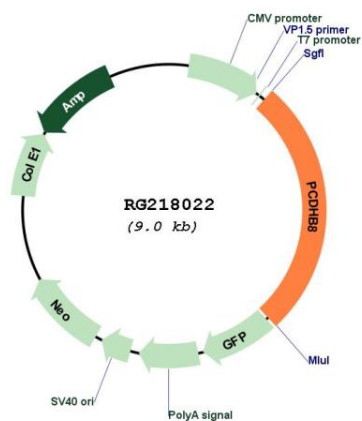
Cytogenetics: 5q31.3

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 RG218022