

Product datasheet for **RG211324**

PCDHB1 (NM_013340) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHB1 (NM_013340) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PCDHB1
Synonyms:	PCDH-BETA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG211324 representing NM_013340
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGGTACGCGCAGAAAATCTTTGCAAAACAGGCAAGTGGGATCTCTTCTCATTTTTCTGTGCATAT
 CTGTGGGGGATGCGACAACATCCGCTATTCAGTGGCAGAGGAAATGGAGAGCGGCTCGTTTGTGGCCAA
 CGTAGCTAAGGACCTAGGACTGGAGGTAGGAAGCTGGCTGCGCGGGGCGCGGCTGGTTTCCGAGGGC
 AACAAAATGCATTTCCGGCTCCACCGCAAGACGGGAGATTTGTTGTGAAGGAGAAAAGTGGATCGGGAGT
 CACTTTGTGGCAAAGCCGACCCTTGTTCTGCACTTTGAAGTAGTCTGGTGGAGCCGCTGCAGTCCTT
 CCGGGCCGAGGTACGGGTATTTGATATCAATGACAATGCCCCAGTTTTCTAAACAAGGAGCCGCTTTTA
 AAGATTCGGAGAGCACCCCTTTGGGTTACGTTTTCTCTGCAGAGCGCCAGGATCTGGACGTGGGCC
 TTAACGGTCTCCAGAACTACACCCTGAGTGCCAATGGGTATTTCCACCTGCACACCCGCTTCTGCAGCCA
 CGGGCCTAAATATGCTGAGCTGGTGTGAACAAACCCCTGGACCGAGAGGAGCAGCTGAAGTCAACTTG
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 TGGCTCTTTGGTGGCCACGGTACTGCCGTGGACCTAGACGAGGGCACCAACAAAGCGATAACTTACTCT
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 GAGGACCCCTCGATTTTGAAGCCATTGAAACATACGACATTGACATTCAAGCTACAGATGGTGGAGGCC
 CTCTGCCACAGCAAAGTCTGGTAGAAGTGGTGGATGTGAATGACAATCCTCCGAAGTGATGGTCTCC
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 GGGACATTCGAGTGGGAGGAAAAGTCACTGCTTCCTCAGAGAAGACCTCCCTTTGTAATCAAACCTAC
 ATTTGGGAATTCTTACTCACTGGTCACTGACAGAAGCTTGGATCGGGAGGAGGTCTCAGGCTATAATATC
 ACCATTGTTGCCATGGATACTGGACCACCTAGCTTGTCTGCCGAGACTATGATAGAGGTGCTAATATCCG
 ACGTTAATGACAATCCTCCAATATTTCCGGAAGATTCTATATCTTGACTGTTGAGAGAAAACAACAGTCC
 TGCGGTTTTTATTGGCAAAGTCCATGCTGAGGATCTTGATTTGGGTGAGAATGCCAAATAACATATTCT
 CTGTTGCCTCAAAAAACGGAGATCTTTCAGTCTTTGCTTACATATCCATAAATCAGGCAATGGGAAGC
 TCTACGCGCTGAGAACCATGGATTATGAGGCCATTCAAGATTTTCAATTTGTGGTAAAGGCAACTGATGG
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 CTTAAGCGTTTTATGCCCAACTTCCCTTTCCCTCATGCCACTGGGGAGATAAAAATGGAGGCTGGCTCCA
 GTTTGCCCCCAAATCTGATAGGAATAAGTCTCAGAGATTAGAGGGCATGACCAGGTATCTGATGACTA
 TATG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG211324 representing NM_013340
 Red=Cloning site Green=Tags(s)

MAGTRRKSLQNRQVGSLLIFLCISVGDATTIRYSVAEEMESGSFVANVAKDLGLEVGKLAARGARLVSEG
 NKMHFRLHRKTGDLFVKEKLDRESLCGKADPCVLHFEVVLVEPLQSFRAEVRVFDINDNAPVFLNKEPLL
 KIPSTPLGSRFPLQSAQDLDVGLNGLQNYTLSANGYFHLHTRFCSHGPKYAELVLNKPLDREEQPEVNL
 TITAVDGGSPPKSGTAHIHVVLVDVNDHVPQFSRLVYRAQVSESPNGSLVATVTAVDLDEGTNKAITYS
 LAQNPEAILKTFQIDPQNGEVRLRGPLDFAIETYDIDIQATDGGGLSAHSKVLVEVVDVNDNPPEVMVS
 SVSSPLPEDSPPQTVVALFTIRDRDIRVGKVTCLREDLPFVIKPTFGNSYSLVTDRSLDREEVSGYNI
 TIVAMDTGPPSLSAETMIEVLISDVNDNPPIFREDSYILTVRENNSPAVFIGKVHAEDLDLGENAQITYS
 LLPPKNGDLVVFAYISINSGNGKLYALRTMDYEAIQDFQFVVKATDGGFLSLSSQVTVRVVVLDDNDNRP
 MILYPLQNGTLPNCNDLVPRSAEAGYLVTKVVAVDGDSGQNSWLSYHLLKATDLGLFSVQRQNGEIHTRLRQ
 ISERDPMMQKLIIILVQDHGQPALSTTVSLNILLVDGFSEPYLQFQDPTKHSRKVNPSTKYLVISLVILSF
 LFLLSVIVIFIIHVYQIKYREKFTIQEHFYDDCNFSNNLVQGGNGSLSRPCPYEMCSATGTGNSEFRF
 LKRFPMPNFPFPHATGEIKMEAGSSLPNSDRNKSQRLEGHDQVSDDYM

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

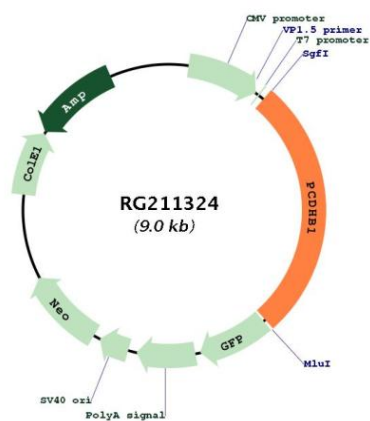
Cloning Scheme:



ACCN:	NM_013340
ORF Size:	2454 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_013340.4</u>
RefSeq Size:	2534 bp
RefSeq ORF:	2457 bp
Locus ID:	29930
UniProt ID:	<u>Q9Y5F3</u>
Cytogenetics:	5q31.3
Protein Families:	Druggable Genome, 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 RG211324