

Product datasheet for **RG221779**

PCDHGB1 (NM_032095) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHGB1 (NM_032095) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PCDHGB1
Synonyms:	PCDH-GAMMA-B1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG221779 representing NM_032095
 Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GGCGCGCC**

ATGCAGAGAGCCAGAGAAGCCGAAATGATGAAAAGTCAGGTACTGTTTCCCTTCCTGCTGCTTTGTTCT
 GCGGGGCCATCTCCAGCAGATCCGATACACGATTCCAGAGGAGCTAGCCAACGGCTCACGGGTGGGAA
 ACTTGCCAAGGATCTGGGGCTCAGTGTCGGGAGTTGCCAACTCGAAAACGCGGTTAGTGCAGAGGAT
 TATTTCAACGTTAGTTTGGAGAGCGGGATTTGTTAGTGAACGGTAGGATAGATCGAGAGAAGATTTGCG
 GAAGGAACTTGAGTGTCACTAGAATTCGAAACGGTCGCTGAAAACCAATGAATGTTTCCACGTGGT
 TGTTGTAATCCAAGATATTAATGACAATGCACCACGTTTCGTTGCAAAAGGCATTGACTTAGAAATTTGT
 GAGTCAGCCTTACCGGGGTAATTTCTCTCTGGATTCTGCTCAAGATGCAGATGTGGAAGGCAATTCAC
 TGAAGTTATACACCATCAACCCCAATCAATACTTCTCTGTCAACGAAGGAAAGTCTGATGGAAGTAA
 ATATCCGATTACTGCTGGAAAACTCTAGACAGGGAACATCAGAGCTCTCATCGCTTAATCCTGACT
 GCCATGGATGGCGGGGACCCGCCTTAAGCGGCACCAACCATATCTGGATCCGAGTTACGGATGCCAATG
 ATAATGCTCCCGTGTTTAGCCAGGAGGTATACAGGGTTAGCCTCCAAGAAAACGTACCGTGGGGAACCTC
 CGTGCTGCGGGTGATGGCCACAGACCAGGATGAGGGCATTAAATGCAGAGATCACCTATGCCTTCCTCAAT
 TCCCAATAAGTACCAGCCTCTTCAATCTCAATCCAAATACTGGCGACATCACAACCAATGGCACATTGG
 ATTTTGAAGAGACAAGTAGATATGTGTTGAGTGTGGAAGCTAAGGATGGAGGAGTACACACAGCTCACTG
 TAATGTTCAAATAGAAATTGTTGACGAGAATGACAATGCCCCAGAGGTGACATTCATGTCCTTCTCTAAC
 CAGATTCAGAGGATTCAGACCTTGAAGTGTAAAGCCCTCATAAAGTGCAGAGACAAGGATTCGGGC
 AAAATGGCATGGTGACATGCTATACTCAGGAAGAAGTTCCTTTCAAATTAGAATCCACCTCGAAGAATTA
 TTACAAGCTGGTGATTGCTGGAGCCCTAAACCGGGAGCAGACAGCAGACTACAACGTCACAATCATAGCC
 ACCGACAAGGGCAAACAGCCCTTTCTCCAGGACAAGCATCACCTGCACATCTCCGACATCAACGACA
 ATGCACCTGTTTTCCATCAGGCCTCCTATGTGGTCCACGTGTCTGAGAACAACCCACCTGGCGCCTCCAT
 TGCACAAGTAAGCGCCTCCGACCCGGATTGGGACCCAACGGCAGAGTCTCCTACTCTATTCTGGCCAGT
 GACCTGGAGCCGCGGGAGCTGTTGTCTACGTGTCCGTGAGCCCGCAGAGCGGGTGGTGTTCGCGCAGC
 GCGCCTTCGACCACGAGCAGCTGCGCGCCTTCGAGCTCAGCTGCAGGCCAGGGACCAGGGCTCCCCGC
 GCTCAGCGCCAACGTGAGCCTGCGCGTGTGGTGGCGACCTCAATGACAATGCGCCACGGGTGCTGTAC
 CCCGCGCTGGGGCTGATGGCTCCGCCCTTCGATATGGTGCCACGCGCCGAGAGCCCGGCTACCTGG
 TGACCAAGGTGGTGGCGGTGGACGAGACTCAGGACACAACGCTTGGCTGTCTACCACGTGCTGCAGGC
 CAGCGAGCCCGGGCTCTTCAGCCTGGGGTTCGCGACGGGTGAGGTGCGCACAGCGCGTGCCTTGGGCGAC
 AGGGACGCGGCCCGCCAGCGCCTGCTGGTTCGCTGTGCGTGATGGAGGACAGCCGCCACTCTCCGCCACCG
 CCACGCTGCACCTAATCTTCGCGGATAGCTGCAAGAGGTATTGCCAGACCTCAGCGACCGCCCTGAGCC
 CTCTGACCCCCAGACGGAAGTGCAGTTTACCTGGTGTGGCCTTGGCCTTGATCTCAGTGCTCTTTCTC
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 AAACCGGTCTCTGCTCCAAGTCTGGGCCCGGGTTCCTCCAACACAGCGAGGGGACTTTGCCCTATTC
 CTACAATCTATGTATTGCCTCTCATTCTGCAAAGACAGAGTTTAATTCTCTCAACCTGACACCGGAAATG
 GCTCCCCCTCAGGATCTGCTGTGTGATGATCCTTCTATGGTTGTATGTGCCAGTAATGAAGATCACAAAA
 TCGCTTATGACCTTCTTTGTCTTCGCACGTGAGTTTCTGCAAATCTAGT

ACGCGTACGCGGCGGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG221779 representing NM_032095
 Red=Cloning site Green=Tags(s)

MQRAREAEMMKSQVLPFLLSLFCGAISQQIRYTIPEELANGSRVGKLA KDLGLSVRELPTRKLRVSAED
 YFNVSLESDDL VNGRIDREKICGRKLECALEFETVAENPMNVFHVVVVIQDINDNAPRFVAKGIDLEIC
 ESALPGVKFSLDSAQDADVEGNSLKLYTINPNQYFSLSTKESPDGSKYPVLLLEKPLDREHQSSHRLILT
 AMDGGDPPLSGTTHIWRVTDANDNAPVFSQEVYRVSLQENVPGTSLVRVMTDQDEGINAEITYAFLN
 SPISTSLFNLNPNTGDITNTGLDFEETSRYVLSVEAKDGGVHTAHCNVQIEIVDENDNAPEVTFMSFSN
 QIPEDSDLGTVIALIKVRDKDSGQNGMVTCTQEEVPFKLESTSKNYYKLVIAGALNREQTADYNVTIIA
 TDKGKPALSSRTSITLHISDINDNAPVFHQASYVVHVSENNPPGASIAQVSASDPDLGPNGRVSYSILAS
 DLEPRELLSYVSVSPQSGVVFQAQAFDHEQLRAFELTLQARDQGSPALSANVSLRVLVGDNDNAPRVLY
 PALGPDGSALFDMVPRAAEPGYLVTKVAVDADSGHNAWLSYHVLQASEPGLFSLGLRTGEVRTARALGD
 RDAARQRLLVAVRDGGQPPLSATATLHLIFADSLQEVL PDLSDRPEPSDPQTELQFYLVVALALISVFLFL
 LAVILAIALRLRRSSSLDTEGCFQTGLCSKSGPGVPPNHSEGTL PYSYNLCIASHSAKTEFNSLNLTPEM
 APPQDLLCDDPSMVVCASNEDHKIAYDPSLSSHVSFCKSS

TRTRPLE - GFP Tag - V

Restriction Sites: AscI-MluI

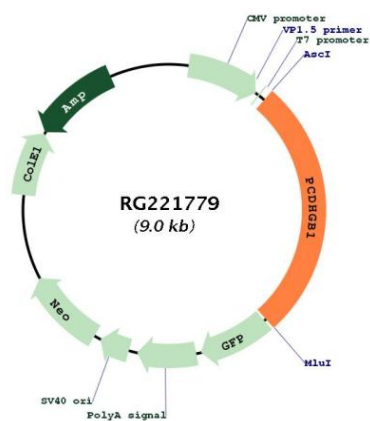
Cloning Scheme:



ACCN:	NM_032095
ORF Size:	2430 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:	<u>NM_032095.1, NP_115266.1</u>
RefSeq Size:	2433 bp
RefSeq ORF:	2433 bp
Locus ID:	56104
UniProt ID:	<u>Q9Y5G3</u>
Cytogenetics:	5q31.3
Domains:	CA
Gene Summary:	This gene is a member of the protocadherin gamma gene cluster, one of three related clusters tandemly linked on chromosome five. These gene clusters have an immunoglobulin-like organization, suggesting that a novel mechanism may be involved in their regulation and expression. The gamma gene cluster includes 22 genes divided into 3 subfamilies. Subfamily A contains 12 genes, subfamily B contains 7 genes and 2 pseudogenes, and the more distantly related subfamily C contains 3 genes. The tandem array of 22 large, variable region exons are followed by a constant region, containing 3 exons shared by all genes in the cluster. Each variable region exon encodes the extracellular region, which includes 6 cadherin ectodomains and a transmembrane region. The constant region exons encode the common cytoplasmic region. These neural cadherin-like cell adhesion proteins most likely play a critical role in the establishment and function of specific cell-cell connections in the brain. Alternative splicing has been described for the gamma cluster genes. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG221779