

Product datasheet for **SC113324**

PCDHGB1 (NM_018922) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	PCDHGB1
Synonyms:	PCDH-GAMMA-B1
Mammalian Cell	None
Selection:	
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_018922, the custom clone sequence may differ by one or more nucleotides

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ATGCAGAGAGCCAGAGAAGCCGAAATGATGAAAAGTCAGGTACTGTTCCCTTCTGCTGCTTTGTTCT
GCGGGGCCATCTCCAGCAGATCCGATACACGATTCCAGAGGAGCTAGCCAACGGCTCACGGGTGGGAA
ACTTGCCAAGGATCTGGGGCTCAGTGTCGGGAGTTGCCAACTCGAAAAGTACGGGTAGTCAGAGGAT
TATTTCAACGTTAGTTTGGAGAGCGGGGATTTGTTAGTGAACGGTAGGATAGATCGAGAGAAGATTGCG
GAAGGAAACTTGAGTGTGCACTAGAAATTCGAAACGGTCGCTGAAAACCCAATGAATGTTTTCCACGTGGT
TGTTGTAATCCAAGATATTAATGACAATGCACCACGTTTCGTTGCAAAAGGCATTGACTTAGAAATTTGT
GAGTCAGCCTTACCCGGGTAAAATTCCTCTGATTCTGCTCAAGATGCAGATGTGGAAGGCAATTAC
TGAAGTTATACACCATCAACCCCAATCAATACTTCTCTGTCAACGAAGGAAAGTCCTGATGGAAGTAA
ATATCCGGTATTACTGCTGAAAAACCTCTAGACAGGGAACATCAGAGCTCTCATCGCTTAATCTGACT
GCCATGGATGGCGGGACCCGCTCTAAGCGGCACCAACCATATCTGGATCCGAGTTACGGATGCCAATG
ATAATGCTCCCGTGTAGCCAGGAGGTATACAGGGTAGCCTCCAAGAAAACGTACCGTGGGGAACTC
CGTGCTGCGGGTATGGCCACAGACAGGATGAGGGCATTAAATGCAGAGATCACCTATGCCTTCCTCAAT
TCCCCAATAAGTACCAGCCTCTTAATCTCAATCCAAATACTGGCGACATCACAAACATGGCACATTGG
ATTTGAAGAGACAAGTAGATATGTGTGAGTGTGGAAGCTAAGGATGGAGGAGTACACACAGCTCACTG
TAATGTTCAAATAGAAATTTGTGACGAGAATGACAATGCCCCAGAGGTGACATTCATGTCCTTCTCTAAC
CAGATTCAGAGGATTCAGACCTTGGAAGTGAATAGCCCTCATAAAAGTGCGAGACAAGGATTCTGGGC
AAAATGGCATGGTGACATGCTATACTCAGGAAGAAGTTCCTTTCAAATAGAAATCCACCTCGAAGAATTA
TTACAAGCTGGTGATTGCTGGAGCCCTAAACCGGGAGCAGACAGCAGACTACAACGTCACAATCATAGCC
ACCGACAAGGGCAAACAGCCCTTCTCCAGGACAAGCATCACCTGCACATCTCCGACATCAACGACA
ATGCACCTGTTTTCCATCAGGCCTCCTATGTGGTCCACGTGTCTGAGAAACAACCCACCTGGCGCCTCCAT
TGCACAAGTAAGCGCTCCGACCCGGATTGGGACCAACGGCAGAGTCTCCTACTCTATTCTGGCCAGT
GACCTGGAGCCGCGGGAGCTGTTGTCTACGTGTCCGTGAGCCCGCAGAGCGGGTGGTGTTCGCGCAGC
GCGCCTTCGACCAGCAGCTGCGCGCTTCGAGCTCACACTGCAGGCCAGGACAGGGCTCCCCCGC
GCTCAGCGCCAACGTGAGCCTGCGCGTGTGGTGGGCGACCTCAATGACAATGCGCCACGGGTGCTGTAC
CCCGCGCTGGGGCTGATGGCTCCGCCCTCTTCGATATGGTGCCACGCGCCGACAGCCCGGCTACCTGG
TGACCAAGGTGGTGGCGGTGGACGCACTCAGGACACAACGCTTGGCTGTCTACCACGTGCTGCAGGC
CAGCGAGCCCGGGCTCTCAGCCTGGGTTGCGCACGGGTGAGGTGCGCACAGCGCTGCTTGGCGAC
AGGGACGCGGCCCCGCCAGCGCTGCTGGTGGTGTGCGTGTGAGGACAGCCGCCACTCTCCGCCACCG
CCACGTGCACCTAATCTTCGCGGATAGCCTGCAAGAGGTATTGCCAGACCTCAGCGACCGCCCTGAGCC
CTCTGACCCCCAGACGGAATGCAGTTTTACCTGGTGTGGCCTTGGCCTTGATCTCAGTGCTCTTCTC
CTCGCGGTGATTCTAGCGATCGCCCTGCGCCTGCGAGTTCCTCCAGCTCGACACTGAGGGCTGCTTTC
AAACCGGTCTCTGCTCCAAGTCTGGGCCCGGGTTCTCCCAACCACAGCGAGGGGACTTTGCCCTATTCT
CTACAATCTATGATTGCTCTCATTCTGCAAAGACAGAGTTTAATTCTCTCAACCTGACACCGGAAATG
GCTCCCCCTCAGGATCTGCTGTGTGATGATCCTTCTATGGTTGATGTGCCAGTAATGAAGATCACAAAA
TCGCTTATGACCTTCTTTGTCTTCGCACCAAGCCCCGCCAACACGACTGGCGTTTCTCTCAGGCCCA
GAGACCCGGCACCAGCGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCAACAACAGTTTGACACA
GAGATGCTGCAAGCCATGATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGG
GTGCCGGCACCATGGGATTGAGCGCCCGCTACGGACCCAGTTACCCCTGCAGCAGTGCCCGACTACCG
CCAGAATGTCTACATCCAGGCAGCAATGCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCC
CCAGCAGGTGGCAATGGCAACAAGAAGAAGTCGGCAAGAAGGAGAAGAAGTAA
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5' Read Nucleotide

Sequence:

>OriGene 5' read for NM_018922 unedited
 CGCGAAATTCGCACGAGGTGAGCACAGACGCTGCTCCTGTTACCCCTCGAGCGCCTAACT
 AATAAGTCCTAAGCTCAAATCACAGAAGTCCAGGGTGTGCCATTTCTTTTAAAAACA
 TCCCAGAGGAAAGAAGCTCCGCGGAGAGTTCTTGAATGCAGAGAGCCAGAGAAGCCGAA
 ATGATGAAAAGTCAGTACTGTTTCCCTTCTGCTGCTTTTGTCTGCGNGCCATCTCC
 CAGCAGATCCGATACACGATTCCAGAGGAGCTAGCCAACGGCTCACGGGTGGGAACTT
 GCCAAGGATCTGGGGCTCAGTGTCCGGGAGTTGCCAACTCGAAAACCTGGCGTTAGTGCA
 GAAGATTATTTACGTTAGTTTGGAGAGCGGGATTTGNTAGTGAACGGTANGATAGATCG
 AGAGAAGATTGCNGAAGGAACTGAGTGGGCACTANAATTCAAACGGTCGCTGAAAACCAT
 GAATGTTTCACGTGGGTGGTGTGATCAAAATTTATGACATGCCAGTTTCGTGCAAAGGC
 ATGACTAAAATTGGGGATCAGCTTACCCGGTAAATTTCTTGGATCTGCTCAGATCANA
 TTGGGAAGCATTACTTGAAGTATACCCATCAACCCATCATACTCTCTGTCAAAAGGA
 AGTCTGATTGGAGTATATATCGTTATACTGCTGAAACCTCTAACANGAACATCANACTC
 TCACGCTTAATATGCACGGAAGGGGGGGGGCACCCTCTAGCGCACACCTTTTGGGA
 TTCGGGTTTCGGTGCATGATATGCTTCCCGGTACCCAGAA

3' Read Nucleotide

Sequence:

>OriGene 3' read for NM_018922 unedited
 ATGGACCGCGGCACGCAATCTAGTAGTCGAGTTTTTTCTTTTTTTCTTTTCTTTTACA
 AAAAAACGTTTTATTATCTTTTTGTGCGAAAAAAAAGCCATATAAATATTAGAGTA
 TAAACTTTCGTGAGACACAGGAAGAGGGTGGGGTGGGAGCTACGTGACTATGCGAAGAG
 AAGCGCTTATAGGAAAAGTCAGTACGGGGGAGGGGGTGCCTTATCGCGTGGACACAGCA
 CAAAACACAACACGGGCCGCCGCGGCAGATCAAGGACAGACGGCTGCGCGGAGCCCGCC
 GCCCGCTGCCACCCGCCATCACGTAAGGACACACCGCACTACACTACTGGCTATTCTAC
 ACCAGCGAAAGAGGGAGGGGGCGCTACACTACTGTAAGGGCAGGTCTGGGGTTCTCTGG
 CAGCCCCGCTGGATGGCCGGGACCCAGGGGCAGAAGGGGTGGGAGAAGAAGGTCTATG
 CACAAGGAGGCACTGGGAACTTTAACCAGGCTATGGCCACTAGGGGGCGCACTGGGGAC
 CTGGGCAGTGGCTTCACGGAAGATAAACGGCACCTGGCAAGGTGAAGGACTGAGGCTTC
 AGGAGGGCAGGGGCCCTGTTGAAGAAGCCCATCCTGGGCTGAGACCTTCTGTTCAATTG
 GTCCCTGCCCTAGCTCCCTGCCCTCCCATCCATGGACTAAGAATGGCTGGCTGGCCAC
 CCTTTCTGCTGGGGCTCCGCTGACCTTTACAGTGGCACCTCTGGAGTACCCAGCACCC
 ACAGAGGCCCTCTGACCTCTCAGGGGACCCNTGGNNCTAACCTGCTTCGAGCTTCCTT
 GGNACTGATATGCAGTTAATCATTGGGGCCTGTAGCTANNCCAAGCTGGCTGCCTGG
 GCTGACCTATNATGTATTGGGAAAGGGCCAGCCTATTTATGGGGTATGCCTGGATTGNG
 AGAGATTTGGAAGCCCTGGAGACTACAAGACCTCCTCAGGCCCTGATCCTTGATGG

Restriction Sites:

NotI-NotI

ACCN:

NM_018922

Insert Size:

5000 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_018922.2, NP_061745.1</u>
RefSeq Size:	4590 bp
RefSeq ORF:	2784 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] Transcript Variant: This variant (1) includes the constant region exons and encodes the longest isoform (1).