

Product datasheet for **SC113325**

PCDHGB2 (NM_018923) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHGB2 (NM_018923) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCDHGB2
Synonyms:	PCDH-GAMMA-B2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_018923, the custom clone sequence may differ by one or more nucleotides

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ATGAAAGCGAGCTCAGGGAGGTGCGGGCTGGTGCGGTGGCTGCAGGACTGTTGCCCTTCTGTGTCTT
TGTTCCCCGGGGCTCTCCAGTCCAGATCCGCTATTCAATTCAGAGGAGCTGGCCAAAACTCGGTCTG
AGGAAACCTCGCAAGGATCTGGGGCTCAGCGTCCGGGACTTGCCAGCCCGAAGCTGCGGGTTAGCGCG
GAGAAGGAATATTTACAGTAAACCAGAAAGCGGAGACTTACTTGTGAGTGACAGAATAGACCGAGAAC
AGATATGCGGGAAGCAGCCTCTGTGTCTGGATTCGATACTGTGCTGAAAAATCCACTAAATATTTT
CTACATAGCAGTAATTGTGCAGGATATAAATGATAATACCCCGCTATTCAAACAGACTAAGATTAATTTA
AAAATTGGCGAATCCACTAAGCCAGGTACAACATTTCCACTTGACCCAGCCCTGGATTAGATGTTGGTC
CTAACTACTACAAGATACCACCTAATGACAACGAGTACTTTGATCTCGCTGAGAAACAGACTCCAGA
TGGTCGTAATATCCTGAGTTGATTCTAAAACACTCTCTGGACAGAGAAGAGCACAGTTTACATCAATTG
GTCCTCACAGCTGTGGATGGCGGAGACCCACTCAAAGTGGCAGCACCCAAATCCGAATCAAAGTACGG
ATGCCAACGATAACCCTCAGTGTTCAGCCAGGACGTGTACAGGGTACCCTGAGGGAGGACGTGCCGCC
GGGCTTCTTTGTGCTTCAAGTGACAGCCACCGACCGGGATGAAGGCATAAACGCAGAGATCACCTACTCC
TTTCATAATGTGGACGAACAAGTAAACACTTTTTCAACTTAAATGAAAAACAGGAGAAATCACGACAA
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AGCAGCCCACTGCAGTATCCAAGTTGAAATTTGATGACAACGATTGTGCACCTGAAGTTATTGTGACT
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GAGACTCTGGAGAAAATGGAGAAGTTTACTGCCAAGTGTGGGAAATGCCAAGTTATTTTGAATCTTC
CTCAAAGAACTATTACAACTAGTGACAGACGGCGCTCTGGACCGGGAGGAGATCCAGAATAACAATCTC
ACCATCACAGCCACCGGCGGCAAGCCGCCCTCTCCTCCAGCATAATTGTCAACCTGCACATCTCCG
ACGTCAACGATAATGCCCAAGTTTTCCAACAGACTTCTACATGGTTTCAGTGGCAGAGAACAATCCTCC
TGGCGCCTCTATCGCTCAAATCAGTGCCTCTGACCCTGACTTGGGCCCAAGTTTCTACTCC
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TGTTTCGCGCAGCGCGCTTCGATCATGAGCAGCTGCGCGCCTTCGAGCTCACACTGCAGGCCCGCGACCA
GGGCTCGCCCGCTCAGCGCAACGTGAGCCTGCGCGTGTAGTGGGCGACCTCAATGACAATGCGCCA
CGGGTGTGTACCCCGCTGGGCCTGATGGCTCCGCCCTTTCGATATGGTGCCACGCGCCGAGAGC
CCGGCTACCTGGTGACCAAGTGGTGGCGGTGGACGAGACTCAGGACACAACGCTTGGCTGTCTACCA
CGTGCTGCAGGCCAGCGAGCCCGGGCTTTCAGCCTGGGGTTCGCGACGGGTGAGGTGCGCACAGCGCT
GCCTTGGGCGACAGGGACGCGGCCCGCCAGCGCCTGCTGGTCTGCTGTGCTGATGGAGGACAGCCGCCAC
TCTCCGCTACGGCCACGCTGCACCTAATCTTCGCGGATAGCCTGCAAGAGGTATTGCCAGACCTCAGCGA
CCGCCGGGAGCCCTCTGACCCCAAGGCAAACTGCAGTTTACCTGGTTGTGGCCTTGGCCTTGATCTCA
GTGCTCTTCTTCGCGGTGATTCTGGCAATCTCCCTGCGCCTGCGACTCTCTCCAGGTGAGATGCTT
GGGACTGTTTTAGCCTGGTCTCAGTCCAAGCCTGGACTGGGGTCTCCCAATTACAGTGAGGGTAC
ATTGCCATTTCTACAACCTGTGTGTGCCTCACAATCAGCCAAGACAGAGTTCAATTTTGAACATA
ACCCCGAATTGGTTCCCGCGCAAGATCTGCTGTGACAATGCCTCTTGGGAACAAAATACAAATCATG
GAGCCGCTGGGGTCCCTTTTGCCTCAGATACTATTTTGAAGCAAGCCCGCCCAACACGGACTGGCGTTT
CTCTCAGGCCAGAGACCCGGCACAGCGCTCCAAAATGGCGATGACACCGGCACCTGGCCCAACAAC
CAGTTTGCACAGAGATGCTGCAAGCCATGATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCA
CCCTGGGAGGGGTGCCGACCATGGATTGAGCGCCGCTACGGACCCAGTTTACCCTGCAGCACGT
GCCCGACTACCGCAGAATGTCTACATCCAGGCAGCAATGCCACACTGACCAACGCAGCTGGCAAGCGG
GATGGCAAGGCCACGAGGTGGCAATGGCAACAAGAAGAAGTCGGGCAAGAAGGAGAAGAAGTAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018923 unedited
 TGCAGGATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGAAAA
 CAAAAGCAGGAAAAGTGACCTTAGCCCGGATTCTGCCATCCCCGGAAGGCTTATTCCTCC
 TATGGGCAAAGGAGCAAAGGGAGCCAGAAGATGAAAGCGAGCTCAGGGAGGTGCGGGCTG
 GTGCGGTGGTGCAGGACTGTTGCCCTTCTGTGTCTTTGTTCCCGGGGCTCTCCA
 GTCCAGATCCGCTATTCAATCCAGAGGAGCTGGCCAAAACTCGGTCTAGGAAACCTC
 GCCAAGGATCTGGGGCTCAGCGTCCGGGACTTGCCAGCCCGGAAGCTGCGGGTTAGCGCG
 GAGAAGGAATATTTACAGTAAACCCAGAAAGCGGAGACTTACTTGTGAGTGACAGAATA
 GACCGAGAACAGATATGCGGGAAGCAGCCTCTGTGTCTTGGATTTGATACTGTCTGCT
 GAAAACTCACTAAATATTTTCTACATAGCAGTAATTGTGCAGGATATAAATGATAATACC
 CCGCTATTCAAACAGACTAAGATTAATTTAAAAATTGGCGAATCCACTAAGCCAGGTACA
 ACATTTCCACTTGACCCAGCCCTGGATTAGATGTTGGTCTAACTCACTACAAAGATAC
 CACCTTAATGACAACGAGTACTTTGATCTCGTGAGAAACAGACTCCAGATGGTCGTA
 TATCTGAGTTGATTCTAAAACACTCTCTGGACAGAGAAGAGCACAGTTTACATCAATTG
 GTCCTCACAGCTGTGGATGGCGGAGACCCACCTCANAGTGGCACGACCCAAATCCGAATC
 AAAGTCACGGATGCCAACGATAACCTTCAAGTGTTCAGCCAGGACGTGTACAGGGTCAAC
 CTGAGGGGAGACGTGCCNNCGGCTTCTTTGTGCTTCAAGTAAACCCAGCCGGATGAA
 GCATAACCCAAGATACCTCTN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_018923 unedited
 TATGGCCGCGCCGCATCTATAGTCGGTTTTTTTTTTTTTTTTTTTTTCAAAAAACGTTTT
 ATTATTTTTTTGTGCGAAGAAAAAAGCCTATAAATATTAGAGTAAAACTTGCCTGAGA
 CACAGGAAGAGGGTGGGGTGGGAGCTACGTGACTATGCGAAGAGAAGCGCTTATAGGAGA
 AGTCAGTACGGGGGAGGGGGTGCCTTATCGCGTGGACACAGCACAACACACACGGG
 CCGCCGCGGGCAGATCAAGGACAGACGGCTGCGCGGAGCCCGCCCGCTGCCACCCG
 CCATCACGTAAGGACACCCGACTACACTACTGGCTATTCTACACCAGCCGAAAGAGGG
 AGGGGGCGCTACACTACTGTAAGGGCAGGTCTGGGGTTCTCTGGCAGCCCGCTGGATGG
 CCGGGGACCCAGGGGCAGAAGGGGGTGGGAGAAGAAGTCTATGCACAAGGAGGCACTGG
 GAACTTTAACAGGCTATGGCCACTAGGGGGCGCACTGGGGACCTGGGCAGTGGCCTTC
 ACGGAAGATAAACCGCACCTGGCAAGGTGAAGGACTGAGGCTTCAGGAGGGCAGGGGCC
 TGTGGAAGAAGCCCATCCTGGGCTGAGACTTTCTGTTCAATTTGGTCCCTGCCCTAGCTC
 CCTGCCTCCCAACCCAGGGACTAAGAATGGCCTGGCTGGCCACCCTTCTGCTGGAGC
 TACGCTGACCCTTACCAGTGGCACCTCTGGAGTACCCAGCACCCACAGAGGCCCTCTG
 ACCTCTCAGGGANGACCTGGNCCTAAACCTGCTTCGAGCTTCTTGGACTGAAATGCCAG
 TTAATCCATTGGTCTGTAGCTACCCAAAGCTGGCTGCCTGGGCTGAGCCTATTATGT
 TTGGGGAAAGTCCACCTANTTATGGTTTTATGCTGGATCCGGGGGATTGTTGCAAGCC
 CTGAGGCTTACAGAGCCTCTCCAGGCCT

Restriction Sites:

NotI-NotI

ACCN:

NM_018923

Insert Size:

4860 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.

RefSeq: [NM_018923.2](#), [NP_061746.1](#)

RefSeq Size: 4602 bp

RefSeq ORF: 2796 bp

Locus ID: 56103

UniProt ID: [Q9Y5G2](#)

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).