

Product datasheet for **SC113334**

PCDHB15 (NM_018935) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHB15 (NM_018935) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCDHB15
Synonyms:	PCDH-BETA15
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_018935, the custom clone sequence may differ by one or more nucleotides

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ATGGAGCCTGCAGGGGAGCGCTTCCCGAACAAAGGCAAGTCCTGATTCTCCTTCTTTACTGGAAGTGA
CTCTGGCAGGCTGGGAACCCCGTCGCTATTCTGTGATGGAGGAAACAGAGAGAGGTTCTTTGTAGCCAA
CCTGGCCAATGACCTAGGGCTGGGAGTGGGGGAGCTAGCCGAGCGGGAGCCCGGTAGTTTCTGAGGAT
AACGAACAAGGCTTGCAGCTTGATCTGCAGACCGGGCAGTTGATATTAATGAGAAGCTGGACCGGGAGA
AGCTGTGTGGCCCTACTGAGCCCTGTATAATGCATTTCCAAGTGTACTGAAAAAACCTTTGGAAGTATT
TCGAGCTGAACACTAGTGACAGACATAAACGATCATTCTCCTGAGTTTCTGAAAGAGAAATGACCCTG
AAAATCCAGAACTAGCTCCCTGGGACTGTGTTTCTCTGAAAAAGCTCGGGACTTGGACGTGGGCA
GCAATAATGTTCAAACTACAATATTTCTCCCAATTCTCATTTCCATGTTTCCACTCGCACCCGAGGGGA
TGGCAGGAAATACCCAGAGCTGGTGTGGACACAGAAGTGGATCGCGAGGAGCAGGCCGAGCTCAGATTA
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AGGCTCCCTAGTTGTCAAGGTCTCTGCTAGGGATTTAGACACTGGGACAATGGAGAGATATCATCTCC
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TAAAAAACTAGATTTTGTAGACAATGTCTTCGTATGATCTAGATATAGAGGCATCTGATGGCGGGGACT
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TGAGAATTTCTACAGGCTGGTAACAGAAGGGGCGCTGGACAGAGAGACCAGAGCCGAGTACAACATCACC
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GTGCTGTACCCGCTGCAGAACGGCTCCGCGCCCTGCACCGAGCTGGTCCCGGGGCGGCCGAGCCGGGCT
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CAAGGCCACGGAGCCCGGCTGTTCCGCGTGTGGGCGCACAATGGCGAGGTGCGCACCGCCAGGCTGCTG
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CCACCGCCACGCTGCAAGTGTCTCTGGTGGACGGCTTCTCTCAGCCCTACCTGCCCTCCAGAGGGCGG
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TTCTCTTCTCGGTGTTCTGTTCTGTTGGCAGTGGCGGTGTGCAGGAGGAGCAGGGCGGCCTCAGTGGGT
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GAGCTACCAGTACGAGGTGTGTCTGACGGGAGGCTCTGAAAGTAAATGATTTCAAGTTCTTGAAGCCTATA
TTCCAAAATATTGTAAGCCAGGACTCTAGGAGGAAATCAGAATTTCTAGAATAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018935 unedited
 AGAAATTTGTAATACGACTCACTATAGGGCGGCCCGCAATTCGCACGAGAAGCCTGTTA
 GCAGAGCACGGACCAGTGTCTCCGGAGAATGCTATTCTCCTACATTTCCGAACAGGTTAT
 CAACGCACAGATCGATCACTGCCTCTGTCCCATCGCTCCCTGAAGTAGCTCTGACTCCGG
 TTCCTTGAAAGGGGCGGTACAGAAGTAAAGATGGAGCCTGCAGGGGAGCGCTTTCCCGA
 ACAAAGGCAAGTCTGATTCTCCTTCTTTACTGGAAGTACTCTGGCAGGCTGGGAACC
 CCGTCGCTATTCTGTGATGGAGGAAACAGAGAGAGGTTCTTTGTAGCCAACCTGGCCAA
 TGACCTAGGGCTGGGAGTGGGGGAGCTAGCCGAGCGGGGAGCCCGGTTAGTTTCTGAGGA
 TAACGAACAAGGCTTGCAGCTTGATCTGCAGACCGGGCAGTTGATATAAATGAGAAGCT
 GGACCGGGAAGCTGTGTGCCCTACTGAGCCCTGTATAATGCATTTCCAAGTGTACT
 GAAAAACCTTTGGAAGTATTCGAGCTGAACTACTAGTGACAGACATAAACGATCATT
 TCCTGAGTTTCTGAAAGAGAAATGACCCTGAAAATCCCAGAACTAGCTCCCTGGGAC
 TGTGTTTCTCTGAAAAAGCTCGGGACTTGGACGTGGGCAGCAATAATGTTCAAACTA
 CAATATTTCTCCAATTCTCATTCCATGNTCCACTCGCACCCGAGGGGATGGCANGAA
 ATACCCAGAGCTGGTGTGGACACAGAAGTGGATCGCGAGGAGCANGCCGAGCTCAAATT
 AACTTTGACAGCGTGGACGNGGGCTCTCCACCCCGA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_018935 unedited
 TGGACGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTCAGNAATGAATACTA
 TTAATTTATTAGAAAATATGAACCTTCTGATATAAAATATTTATAATAACAATAATT
 TGAAGAACTAACAATCAGACAAAGGAAATGAGTAACACTAAAGACAACAGTAGAAATT
 TAAAAAAGTAGAATCAAGATTACTAAAGGGTTAAAAAACTAAGGTGAAAAGTGAG
 GAAGACAAAATTAACAGACGGTCGAAAGCTACAGATACCTACATTATTCTAGAAATTCT
 GATTTCTCTAGAGTCCTGGCTTACAATATTTGGGAATATAGGCTTCAAGAACTGAAA
 TCATTACTTTAGAGCCTCCCGTCAGACACACCTCGTACTGGTAGCTCTGGGAAAGGGTC
 CCGGTGCCGTCACGTCCACCAGATGCCCTGGAAGGGGCCCTCGGGCACCGAGCAGCGA
 CCCACTGAGGCCGCCCTGCTCCTCTGCACAGCCGCACTGCCACGAACAGGAACCCGAG
 AAGAGGAAGAGCGAAGACACCGAGGCAATGCCACCACCGGTAGACGGTAAGCGAGTCG
 GCCTGGGCTTGGGCCGGGCCCTCTGGGAGCGGCAGGTAGGGCTGAGAGAAGCCGTCC
 ACCAGGACACTTGCAGCGTGGCGGTGGCCGAGCGCGGAGGCTCGCCATTGTCCTTGACC
 AGCACACTAGCCTGTGCTTGGCCACGTGCGGCTCGCTCAGCAGCCTGGCGGTGCCGACC
 TCGCCATTGTGCCCCACACGCCGAAACAGCCGGGCTCCGTGGCCTTGAGCAGCTGGTA
 CCACAGCCAGGCTTCTGTCCCAGNGCCGTCCACCGCCACCACCTTGTTACCAGGTTAC
 CCGGTTCCGCCCGGGGACAACTCG

Restriction Sites:

NotI-NotI

ACCN:

NM_018935

Insert Size:

2940 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_018935.2](#), [NP_061758.1](#)

RefSeq Size: 2661 bp

RefSeq ORF: 2364 bp

Locus ID: 56121

UniProt ID: [Q9Y5E8](#)

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]