

## Product datasheet for **SC108036**

### PCDHB16 (NM\_020957) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHB16 (NM_020957) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCDHB16
Synonyms:	ME1; PCDH-BETA16; PCDH3X; PCDHB8a
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC108036 sequence for NM\_020957 edited (data generated by NextGen Sequencing)

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ATGGAGATTGGATGGATGCACAATCGGAGACAAAGGCAAGTCCTTGTCTTTCTTTGTTTTG
CTGAGCTTGTCTGGGGCGGGCGCCGAGTTGGGGTCTATTCCGTAGTGAAGAAACGGAG
AGAGGCTCTTTTGTGGCAAATCTAGGAAAAGACCTGGGGTTGGGGTTGACAGAGATGTCC
ACCCGCAAGGCCAGGATCATTTCAGGGGAACAACAGCATTTCAGCTCAAGGCTCAA
ACTGGGATTTGCTCATAAATGAGAAGCTAGATCGAGAGGAGCTATGCGGTCCCCTGAG
CCTTGCATACTACATTTCCAAGTGTAAATGGAAAACCCTTTAGAAATATTTCAAGGCTGAA
CTGAGGGTGATAGATATAAATGACCATTCTCCATGTTCACTGAAAAGGAAATGATTCTA
AAAATACCGAAAACAGTCTCTAGGAACTGAGTTCCTCTGAATCATGCTTTGGACTTG
GACGTAGGAAGCAATAATGTTCAAAACTATAAAATCAGCCCAAGCTCTCATTTCGGGTT
CTAATCCATGAATTCAGAGATGGCAGGAAATACCCTGAGCTAGTGTGGATAAAGAGCTG
GATCGGGAGGAGGAGCCTCAACTAAGATTAACCCTGACAGCGCTGGATGGTGGCTCTCCA
CCGCGATCTGAACTGCTCAGGTCCGTATTGAAGTGGTGGACATCAATGATAACGCTCCT
GAGTTTGAGCAGCCCATCTACAAAGTGCAGATTCCAGAGAACAGTCTCTTGGCTCCCTG
GTTGCCACCGTCTCCGCCAGGGATTTAGACGGCGGAGCCAATGGAAAAATATCATACACA
CTCTTTCAGCCTTCGGAGGATATTAGTAAAACCTTTGGAGGTAAATCCTATGACAGGGGAA
GTTGACTGAGAAAGCAAGTAGATTTTCAAATGGTTACGCTTATGAAGTGCGCATCAA
GCCACAGATGGGGGAGGTCTTTCAGGAAAGTGCCTCTTCTCCTGAGGTGGTGGACGTG
AATGACAATCCCCACAGGTGACCATGTCTGCACTCACCAGCCCCATCCCAGAGAAGTCCG
CCTGAGATAGTAGTTGCTGTTTTAGCGTTTCAGATCTGACTCCGGAACAATGGGAAG
ACGATTTCCCTCCATCCAGGAAGACCTTCCCTTTCTTCTAAAACCTTCAGTCAAGAAGTTT
TACACCTTGGTAACGGAGAGAGCACTCGACAGAGAAGCAAGAGCTGAATATAATATCACC
CTACCCGTACAGATATGGGGACTCCAAGGCTGAAAACGGAGCACAACATAACAGTGCAG
ATATCAGATGTCAATGATAACGCCCCACTTTACCCAAACCTCTACACCCTGTTGCTC
CGCGAGAACAACAGCCCCGCTGCACATCGGCAGCGTCAGCGCCACAGACAGAGACTCA
GGCATCAACGCCAGGTACCTACTCGCTGCTGCCGCCAGGACCCGCACCTGCCCTC
GCCTCCCTGGTCTCCATCAACGCAGACAACGGCCACCTGTTGCCCCTCAGGTGCTGGAC
TACGAGGCCCTGCGGGAGTTCGAGTTCGCGTGAGCGCCACAGACCGGGCTCCCCGGCT
TTGAGCAGCGAGGCGCTGGTGCCTGCTGGTGTGGACGCAACGACAAGTCCGCCCTC
GTGCTGTACCCGCTGCAGAACGGCTCCGCGCCCTGCACTGAGCTGGTGGCCCGGGCGGCC
GAGCCGGGCTACCTGGTGACCAAGTGGTGGCGGTGGACGGGACTCGGGCCAGAAGGCC
TGCTGTGCTACAGCTGCTCAAGGCCACGGAGCCCGGGCTGTTGCGTGTGGGGCGCAC
AATGGCGAGGTGCGCACCGCCAGGCTGCTGAGCGAGCGGACGCAAGCACAGGCTG
GTGGTGTGGTCAAGGACAATGGCGAGCCTCCGTGCTCGGCCACCGCCACGCTGCACGTG
CTCCTGGTGGACGGCTTCTCCAGCCCTTCTGCGCTCCAGAGGGCGCCCGCCGAG
ACCCAGGCCAACTCGCTCACTGTCTACCTGGTGGTGGCGTTGGCCTCGGTGCTGCTGCTC
TTCCTCTTTTGGTGTCTCTGTTGCTGGTGGTGGCGCTGTGCAGGAGGAGCAGGGCGGCC
TCGGTGGGCGCTGCTCGATGCCTGAGGGCCCTTTCCAGGGCGTCTGGTGGACGTAAGC
GGCACCAGGACCTGTCCAGAGCTACCAATACGAGGTGTGCTGACAGGAGGCTCAGAA
ACAAGTGAGTTCAAGTCTGAAGCCGATTATCCCAACTTCTCTCTTAG

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Clone variation with respect to NM\_020957.1  
 1445 c=>t;1797 t=>c;1914 g=>c;1954 c=>t;2129 c=>t

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_020957 unedited  
 CGTTCACATTTTGAATACGACTTCACTATAGGGCGGCCGCAATTCGCACGAGGGAGTG  
 TGAACCTCTTTAAGACACCGTTGGGCTGCTTGGTTCTGACATTCTGGACTGCAAAACAG  
 TTCTACTAGGATCCTGGGGATACATGAAGCTTCTGTGAACCACTTTTCAAGAAAAAGCA  
 ATGGAGATTGGATGGATGCACAATCGGAGACAAAGGCAAGTCTTGTTCCTTTGTTTTG  
 CTGAGCTTGTCTGGGGCGGGCGCGAGTTGGGGTCTATTCCGTAGTGAAGAAACGGAG  
 AGAGGCTCTTTTGTGGCAAATCTAGGAAAAGACCTGGGGTTGGGGTTGACAGAGATGTCC  
 ACCCGCAAGGCCAGGATCATTTCCAGGGGAACAAACAGCATTTGCAGCTCAAGGCTCAA  
 ACTGGGGATTTGCTCATAAATGAGAAGCTAGATCGAGAGGAGCTATGCGGTCCCACTGAG  
 CCTTGCATACTACATTTCCAAGTGTAAATGAAAAACCTTTAGAAATATTTCAAGGCTGAA  
 CTGAGGGTGATAGATATAAATGACCATTCTCCCATGTTCACTGAAAAGGAAATGATTCTA  
 AAAATACCGGANAACAGTCTCTAGGAACTGAGTTCCTCTGAATCATGCTTTGGACTTG  
 GACGTANGAAGCAATAATGTTCAAACATAAAAATCAGCCCAAGCTCTCATTTCCGGGTT  
 CTAATCCATGAATTCAGAGATGGCANGAAATACCCTGAGCTAGTGTGGATAAAGAGCTG  
 GATCGGGAGGAGGAGCCTCACTAAGATAACCCTGAAGCGCTGGATGGTGGCTCTCACCGC  
 GATCTGAACTGCTCAGTCCGTATGAAGTGGTACATCATGATACGCTCCTGAGTTGACAG  
 CCATCTACAA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_020957 unedited  
 GACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTAAATCTGACTCAC  
 ATAGAATTTTATCAAAGCCTAATATCTAGAAAAGAAGCTCAACTTTACATATAATAAGC  
 AAGAAATACAGATTAACATAGGGATATTTTACAGAGAAAGGGCTAGATACCGCCAATGT  
 ATACTATGATGAATATAAAGCCAAACCATGTAATGTCTCTTTGATAAGTTTTTTTTCC  
 AACTTAATGAGATTGAGTTGTTAGCCATTAATAATATAACAGGGACCTCTGATTTTTTAA  
 TTCAGTAATAGAAAAGATAAATTAATAATTTTTTACATAATACCTTTGCCTTTTGTCT  
 ACAAACACAAACACATTTACACATACTGAATGTCTTACAATGGCTTCTCTTTTTATTTTT  
 AGATAAGGCTGGTTAAAGATTTCTCATACTTACAATAGGAATATTTTATTTTATTTA  
 AGGAGATACCAATACAGGGAAAAAGAACTTTTTTTTTTAAAGGTAACCTTACGAGACTCC  
 ATCTCAAAAAATAAATAAATAAACTTTGGATGGGCACATTGGCTTATGCCTGTAATCC  
 CAGAATTTTGGGAGGCTGAGGAGGNAAGGATGGTTTGGCCAGGAGTTAAAGATCAGCC  
 TGGGCAACTTGGCAAAATCCATCGCTGCAAAAGATTAGCAGCATTGGNGGCATGCCCTTA  
 TGTCCAAGCTACTGGAAGGTTAGGGGAAGGACCTTTCCCCCATAGGGCCAGTTCGATGA  
 CCACACTTTCCCTCACTCCACCTGGTCCATAACACACCCTGCCCTACAGGAAGCTCCAA  
 CGAACGCCGAATCAACTACGACCCCGAACTCTTTTTAATTTGTCTCCAATATCATTCT  
 TGCAGGACACCACATAAACCCCGCCTTCTACCCGCTCGTTTTCTCCGCCCCCTC  
 GCCATTCTCTATCCCTCCGCCCTTCCCTTCGTCC

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_020957

**Insert Size:**

3810 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\\_020957.1](#), [NP\\_066008.1](#)

**RefSeq Size:** 4827 bp

**RefSeq ORF:** 2331 bp

**Locus ID:** 57717

**UniProt ID:** [Q9NRJ7](#)

**Cytogenetics:** 5q31.3

**Domains:** CA

**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]