

Product datasheet for **SC304637**

PCDHB7 (NM_018940) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHB7 (NM_018940) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCDHB7
Synonyms:	PCDH-BETA7
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_018940 edited
 TTCAAAGGATTCGCTGCTGCCATTTGTGAGAGCCGCTGGAGCTGAGTCAAAGTCATTT
 TGAAAGACTGATCCAAAGAAGAATGGAGCCAGAGTGGAGCGTGTGTCAGAAAAGGCA
 AGTCTTATTTCTTTGTGATTTCTGGGAATGTCTTGGGCTGGCGCGAACCCTTCGGTA
 TTTTGTGGCGGAGAAACCGAGAGAGGCACCTTTCTTACCAACTTGGCAAAGACCTAGG
 GTTAGGGGTAGGGGAACTGAGAGCCCGGGAACTAGAATTGTTTCAGACCAGAACATGCA
 AATTTTACTGCTCAGTTCGCTTACTGGTGTACTTCTAAATGAGAAATTGGACCGAGA
 GGAAGTGTGTGGCCCCAGAGAGCCCTGTGTGCTGCCTTCCAGTTGTTATTGGAAAAAC
 TTTTCAGATTTTCCGTGCTGAATATGGGTCAGAGACATCAATGATCACGCTCCAGTATT
 TCTAGACAGAGATTTCTTGGAAATATTAGAAAGTACCACTCCAGGGCGGCATTTCT
 CCTAGAGAGTGCACAGGATTCAGATGTTGGAACCAACAGCCTGAGTAACTACACCATCAG
 CCCAATGCCTATTTCCATTAATGTCCATGATAGCGGGGAGGGGAATATCTATCCCGA
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 CGCTTTAGACGGCGGCTCTCCTCCAAGATCAGGGACCGCCCTCGTGCGCATTCTGGTTCT
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 AACCTCTACACCCTGTTTGTCCGTGAGAACAACAGCCCCGCCCTGCCCATCGGCAGTGT
 CAGCGCCACAGACAGAGACTCGGGCACCAACGCCAGGTCATCTACTCCCTGCTGCCGTC



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CCAGGACCCGCACCTGCCCTCGCCTCCCTGGTCTCCATCAACGCGGACAACGGCCACCT
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TGGTCTTAGAGATTCAAGTAAAGTCACTAAGTCCACTAATAAAGTGACAAAACCTGAG
CATCCATCCCAGATCTGTCTGACTCTGGGTCAGTGACCCTGCTCCGATTCC

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- Restriction Sites:** Please inquire
- ACCN:** NM_018940
- Insert Size:** 3000 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).
- OTI Annotation:** The ORF of this clone has been fully sequenced and found to be a perfect match to NM_018940.2.
- 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_018940.2](#), [NP_061763.1](#)

RefSeq Size: 3715 bp

RefSeq ORF: 2382 bp

Locus ID: 56129

UniProt ID: [Q9Y5E2](#)

Cytogenetics: 5q31.3

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. The transcript for this particular family member uses more than one polyadenylation site. [provided by RefSeq, Jul 2008]