

Product datasheet for **SC114606**

PCDHB5 (NM_015669) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHB5 (NM_015669) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCDHB5
Synonyms:	PCDH-BETA5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_015669, the custom clone sequence may differ by one or more nucleotides

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ATGGAGACTGCGCTAGCAAAAACGCCACAGAAAAGGCAAGTTATGTTTCTTGCTATATTGTTGCTTTTGT
GGGAGGCTGGCTCTGAGGCAGTTAGGTATTCCATACCAGAAGAAACAGAAAAGTGCTATTCTGTGGCCAA
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TAAATTAG
    
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5' Read Nucleotide Sequence: >OriGene 5' read for NM_015669 unedited
TATCCGACTCACTATAGGGCGGCCGGAATTCGNACGAGCGGATAAATCAGACGCCATTA
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CAGAAAAGTGGCTATTCTGTGGCCAACCTGGCAAAAAGACCTGGGTCTTGGGGTGGGGGAAC
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AGACTTTGACATAGGTAGCAACTTGTTCAGAACTACACAATCAGCCAAATTCACACT
TTTCATGTTGCTACGCATAATCGCGGGAGAATGGGCAGAAATACCCAGAGCTGGTGCCTG
GACAAAGCGCTGGCACCGGGAGGAGCGGCTGAACTCAACTTAACACTACTGCCTGGAC
GCGGGGGGGCCTCCGCCAGTCCGGGACCACCACATTTCGGCATGGTGGT

3' Read Nucleotide Sequence: >OriGene 3' read for NM_015669 unedited
TATGGCCGCGCCGCATCTAAAGTCGGTTTTTTTTTTTTTTTTTTTTTTTTAGCAGTTCAT
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TCAGCATATTTGCTATACTTGGGTAGTAGTGATTGTAAGGAGTAATTTGTGTGGCACCT
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CAATTAAGTGTTTTTAAAAAGTTTGCTAATAGGACTCAGGGCTGCAAAAAGAGTAAAT
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TTTGTCTTTGTTTTAAACAATTAATAATATGATGATGTGAAACATTTTTAATTTTTGCATT
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AGAAAAAATCTCAGAAAAATCAACAGCATGCATGGATTTGGAATGACACTATGTAATA
AATGCAATGAAATAAAATTTGACTTTTTCAACACTTGGACAGCATGAAGTTCAACAGACAAA
TCCATTA AAAAGGAAATAAAAGCTCAATCTCAAGGTGAAATTTTTGTCCATGACTCT
CGAATTCTAGATCTGAAAAAGTTTGCATAAATGCCAGATAACAACGCGTCATCACGAGA
TCTCTAATTTTATCCAAGCTTTNCNGAAAGCAGCAGTTTTCCCTATTTCTTACAGNNGC
CCTGGGCAAAAAGGTANGAATNNATCGCTTNCAGAACTTGAACGNNCGNCCCTGAGTCT
NCAGTCAACACACTCCGTATGGTAGCTCTGGNATA

Restriction Sites: NotI-NotI

ACCN: NM_015669

Insert Size: 3460 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_015669.2](#), [NP_056484.1](#)

RefSeq Size: 2925 bp

RefSeq ORF: 2388 bp

Locus ID: 26167

UniProt ID: [Q9Y5E4](#)

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]