

Product datasheet for **SC113333**

PCDHB14 (NM_018934) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHB14 (NM_018934) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCDHB14
Synonyms:	PCDH-BETA14
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_018934, the custom clone sequence may differ by one or more nucleotides

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ATGGAGATCAGAGGGGCACTCGATCTGCGAAAAAGGCAAGTTCTAATATTCCTTGTTTTGCTGGGATTGT
CTCGGGCAGGTAAGTCTGCACACTATTCTGTGGCAGAGGAAACAGAAATGGCTCTTTTGTGGCTAA
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AGCTGTGTGGCTCCACCGAGCCCTGTGTGCTGCATTTTCAGGTGGTTTTGGAAAAACCTTTACAGTTTTT
TCGGTTTTGAGCTGTGTGCAAGACATAAATGATCACTCCCTACATTTCTAGACAAGGAAATACTTATT
AAAATATCAGAAGGTACCACTGTTGGAGCTACCTTTCTAATGGAGAGTGCTCAAGATTTGGATGTCGGA
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GACTTAACATTCAATAA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018934 unedited
 CCCATTGTATACGACTCACTATAGGCGCCGCGAAATTCGCACGAGGGAGGATACACTC
 TCCAGGGGTTCTCTGTTAAAAACCANAGCTTCAGCTTCCAAATACGGCTGAGCTTCAGT
 TTTTCCACAAGAGATTGCCTAAAGGAACCATGGAGATCAGAGGGGCACTCGATCTGCGAA
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 ACATACTTCTGTGGCAGAGGAAACAGAAATGGCTCTTTTGTGGCTAATCTAGCGAGGGA
 CCTAGGGCTGGGGGTGGAGGAGCTGTCTTCACGTGAAGCCCGGTAGTGTCTGATGATAA
 TAAAAAGTATTTGCACCTTGATTTGCTGACTGGGAATTTGCTCCTAAATGAGAACTAGA
 CCGAGACGAGCTGTGTGGCTCCACCGAGCCCTGTGTGCTGCATTTTCAGGTGGTTTTGGA
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 TACATTTCTAGACAAGGAAATACTTATTTAAATATCAGAAGGTACCACTGTTGGAGCTAC
 CTTTCTAATGGAGAGTGTCAAGATTTGGATGTCGGAAGCAACAGTCTCCAAACTACAC
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 ACACTCACAGCAGTGGATGGTTGGATCCCCGCCAGTCTGGGACAACTTTTGGTCTCATC
 AAGGTGTTGGACATCAATGATAATGCCCTGAGTTTCTCANAGTCTTATTGAGTGCAAG
 TCCCCGAGGACAGACCCTTGGTTCTGGATGCCACCATCTCACTAAGATCTGGTGACGAA
 CTATGAAAAATCTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_018934 unedited
 GTGGTTTGATAACCGTTCTCTCTAGCAAATCCACACAACAAATAACTACTTGTACAAC
 GATATAATAAAATCAGTGATAATTGCATGAAGTAGAGGGAAGAAATCTAAGGAACTGG
 AATTTGTTTCACCTATTTCACAATGGCAAGTGAATTCATTTTACTACATCATCTGGTC
 TATAATAGTATTTAATCTTGTAAAGCAATTTCAAATGTATATGTACACCAGCCCTATA
 TCCATACTACATTCAGTTATCAAAATCTCTATCTATAATCTTCTATAGAACTTTCTTTT
 AGAGCTGAGATATAATATGTTACATGATGAGGCAACTATAAACCAATAATGCCTACCCAT
 TCCTTCTTTGTAGGCATCTGAGAGAGGCCACAAAGTGTTAATGATGTTTTATTTACTC
 AATAATTAATAGGAAAGTGAACATAATCATTTCTTTAACAGTTCGAATCCTCATTCCAA
 TTTCTTATGAAGTTCTTGCTTTGCACTCATCTGATGGAAGGCTATTTTACCCAGGATAAG
 ACCCTAACATATTTCTGCTTTAGTACTAAACAACACACAATTTAAGCTAGTAAACACGG
 TGTATTTAAAGAAAAGTGGCCCGACGTAATGCGTCATGCCTGTACCCCTATCCGTTGGG
 ACGCCCAACGCCGTGGATCACTTCGATTACGAGTTCAGACTAGCCTGGGCCACCTGCC
 ATACCTCCTTCTCTTACCCATATCCCAATTTACCCACGCCCTCCGGTGCCTGCGCCGT
 ATCTTGACCTTCCAATTGTCCCTACTAGCAAGCATGCCTGCACCCAGAATTCTGAGCTTC
 CTTGCGCCAAAATCTCGCCCTTCCCTTACCCGGACACAAATGAGTCTTCTCTACCACCA
 ACATTTCCATCTCCCTACGCTGCCAATACCCCTTCTAGTCTCCACCACCCTTGTCGA
 CTTTGCTAGACTCTTTCTTTATAT

Restriction Sites:

NotI-NotI

ACCN:

NM_018934

Insert Size:

4530 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:	<u>NM_018934.2, NP_061757.1</u>
RefSeq Size:	2793 bp
RefSeq ORF:	2397 bp
Locus ID:	56122
UniProt ID:	<u>Q9Y5E9</u>
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]