

Product datasheet for **SC113330**

Protocadherin beta 12 (PCDHB12) (NM_018932) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Protocadherin beta 12 (PCDHB12) (NM_018932) Human Untagged Clone
Tag:	Tag Free
Symbol:	Protocadherin beta 12
Synonyms:	PCDH-BETA12
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC113330 sequence for NM_018932 edited (data generated by NextGen Sequencing)

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ATGGAAAACGGAGGGGCAGGCACTCTGCAGATAAGGCAAGTCCTGCTTTTCTTTGTTTTG
CTGGGAATGTCTCAGGCCGGCTCTGAACTGGGAACTTTTTGGTGATGGAGGAATTGCAG
AGCGGGAGCTTTGTAGGAAATTTGGCAAAGACCCTGGGACTCGAGGTGAGTGAGCTGTCT
TCGCGGGGGGCTCGGGTGGTTTCTAATGATAACAAAGAGTGTTCGAGCTGGACACAAAC
ACTGGGGATTTGCTCCTGAGAGAAATGCTAGACAGGGAGGAGCTCTGTGGCTCCAATGAG
CCTTGTGTGCTGTATTTCCAAGTGTAAATGAAAAACCCACGCAGTTTTTACAAATTGAG
CTCCAGGTCAGGGATATAAATGATCACTCTCCCCTCTTCTTGAAAAAGAAATGCTCTTA
GAAATCCCAGAGAACAGTCTGTGGTGTGTGTTCTTGCTTGAAAGTGCAAAGGATTTA
GATGTAGGAATCAATGCTGTA AAAAGCTACACAATAAATCCGAACTCTCATTTCACGTT
AAAATAAGAGTCAATCCAGACAATAGGAAATACCCTGAGTTAGTTCTGGACAAGGCGTG
GATTATGAAGAGCGCCCGAGCTCAGTTTCATCCTCACTGCTCTGGATGGCGGGTCCCCT
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CCAGAGACTGTGGTTATGGTTTTCAGGATACGAGACAGAGACTCTGGGGACAACGGAAAG
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GCCTCCCTGGTCTCCATCAACGCGGACAACGGCCACCTGTTTGCCTCAGGTGCTGGAC
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GTGCTGTACCCGCTGCAGAACGGCTCCGCGCCCTGCACCGAGCTGGTGCCTGGGCGGCC
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AATGGCGAGGTGCGCACCGCCAGGCTGCTGAGCGAGCGGACGCGGCCAAGCACAGGCTG
GTGGTGTGGTCAAGGACAATGGCGAGCCTCCGCGCTCGGCCACCGCCACGCTGCACGTG
CTCCTGGTGGACGGCTTCTCCAGCCCTACCTGCCTCTCCCGAGGCGGCCCGGCCAG
GCCCAGGCCGACTCGCTCACTGTCTACCTGGTGGTGGCGTTGGCCTCAGTGTGCTGCTC
TTCTCTTCTCGGTGCTCCTGTTCTGTCGGTGGCGCTGTGCAGGAGGAGCAGGGCGGCC
CCGGTGGTGTGCTGCTCGGTGCTGAGGGCCCCTTTCCAGGACATCTGGTGGACGTGAGT
GGCACCGGGACCTGTCCAGAGCTACCACTATGAGGTGTGTGACTGGAGGCTCCAGG
TCAAATAAGTTCAAATTTCTGAAACCAATTATCCCAACTTCTACCCAGAGCACAGGT
AGTGAAGTCGAAGAAAATCCCCATTTCAGAATAATTTGGGTTTCTGA
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Clone variation with respect to NM_018932.3

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_018932 unedited TTTTGTATACGACTCACTATAGGCGGCCGNAATTCGCACGAGGGAAAAANAAGCTATNG GAAAACGGAGGGGCAGGCACTCTGCAGATAAGGCAAGTCTGCTTTTCTTTGTTTGCTG GGAATGTCTCAGGCGGGCTCTGAACTGGGAACTTTTGGTGATGGAGGAATTGCAGAGC GGGAGCTTTGTAGGAAATTTGGCAAAGACCCTGGGACTCGAGGTGAGTGAGCTGTCTTCG CGGGGGGCTCGGGTGGTTTCTAATGATAACAAAGAGTGTTCAGCTGGACACAAACACT GGGATTTGCTCCTGAGAGAAATGCTAGACAGGGAGGAGCTCTGTGGCTCCAATGAGCCT TGTGTGCTGTATTCCAAGTGTTAATGAAAAACCCACGCAAGTTTTTACAAATTGAGCTC CAGGTCAGGGATATAAATGATCACTCTCCCGTCTTCTTGAAAAAGAAATGCTCTTAGAA ATCCCAGAGAACAGTCTGTTGGTGTGTGTTCTTGCTTGAAAGTGCAAAGGATTTAGAT GTAGGAATCAATGCTGTAAAAAGCTACACAATAAATCCGAACTCTCATTCCACGTTAAA ATAAGAGTCAATCCAGACAATAGGAAATACCCTGAGTTAGTTCTGGACAAGGCGCTGGAT TATGAAGAGCGCCCGGAGCTCAGTTTCATCCTCACTGCTCTGGATGGCGGNGTCCCCTCC CAGGTCTGGAAGTGCCTTGGTCAGGNTGGTGGTTGTAGATATTAATGACTCCCNCTG AGTTGAGCAGGGCTTTTTATGAGTGAAGATTCTGGAGAATAGCATCCTTGCTCCCTGGT TGTGACCGTCTCAGCCTGGGAATAN
Restriction Sites:	NotI-NotI
ACCN:	NM_018932
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:	<ol style="list-style-type: none"> 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_018932.3 , NP_061755.1
RefSeq Size:	3422 bp
RefSeq ORF:	2388 bp
Locus ID:	56124
UniProt ID:	Q9Y5F1
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. [provided by RefSeq, Jul 2008]