

Product datasheet for **RC239235**

PCDHB6 (NM_001303145) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHB6 (NM_001303145) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PCDHB6
Synonyms:	PCDH-BETA6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC239235 representing NM_001303145
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTCCTGAAAATATCAGAAATTAATGATGCCAGGAAAGATATTTCTTTGAAAATGGCACACGATTTAG
ACACCGGCAGCAACGGCCTTCAGAGGTACACAATCAGCTCCAACCCTCACTTCCAGGTTCTCACCCGCAA
TCGCAGCGAAGGCAGGAAGTTCCCGGAGCTGGTCTAGACAAAACCGTTGGACCGCGAGGAGCAGCCCAA
CTCAGGCTAACGCTGATCGCGCTGGATGGCGGGTCTCCGCCCGGTGAGGGACCTCCGAGATTCAGATCC
AGGTTTTGGACATCAATGACAACGTCCTCCGAGTTTGTCTCAGGAGCTCTATGAAGCACAAGTCCCTGAGAA
CAACCCCTCGGCTCTCTGGTTATTACCGTCTCAGCCAGAGATTTAGATGCAGGATCGTTTGGGAAGGTA
TCTTACGCCCTGTTTCAAGTCGATGACGTAACCAACCCTTCGAAATAAACGCAATCACAGGAGAAATTC
GGCTGAGAAAAGGCTTTGGATTTGAGGAAATTCAGTCTTATGACGTGGATGTTGAGGCTACAGATGGTGG
AGGCCTATCAGGAAAATGCTCTTATGTCGTCAGGGTCTGGACGTGAATGACAATGCCCCGAACTCACC
ATGTCGTTCTTATCAGCCTCATCCAGAAAATACCAGAGATCACAGTGGCAGTTTTCTAGTGTTCAG
ATGCAGACTCTGGACATAACCAACAGGTTATTTGTTCAATAGAGAACAATCTCCCTTTCTACTAAGACC
TTCCGTGGAGAATTTCTACACCCTGTAACAGAAGGCGCGCTGGACAGAGAGAGCAGAGCCGAGTACAAC
ATCACTATCACGGTCACTGATTTGGGGACCAAGGCTGAAAACCCAGCAGAGCATAACTGTGCAGGTCT
CCGACGTCATGACAACGCCCGCCTTACCCAAACCTCTACACCCTGTTCTGTCGCGAGAACAACAG
CCCCGCCCTGCACATCGGCAGCGTCAGCGCCACAGACAGAGACTCAGGCATCAACGCCAGGTCACTAC
TCGCTGCTGCCGCCAGGACCCGACCTGCCCTCTCTCCCTGGTCTCCATCAACGCGGACAACGGCC
ACCTGTTTGGCCCTCAGGTCGCTGGACTACGAGGCCCTGCAGTCTTTCGAGTTCCGCGTGGCGCCACAGA
CCGCGGCTCCCCGGCGTTGAGCAGCGAGGCGCTGGTGCCTTGGTGGTGGACGCAACGACAACCTCG
CCCTTCGTGTTGTACCCGCTGCAGAACGGCTCCGCGCCCTGCACCGAGCTGGTGCCTCCGGCGGCGGAGC
CGGGCTACCTGGTGACCAAGGTGGTGGCGGTGGACGGCGACTCGGGCCAGAACGCTGGCTGTCGTACCA
GCTGCTCAAGGCCACGGAGCTCGGTCTGTTCCGCGTGTGGGCGACAATGGCGAGGTGCGCACCGCCAGG
CTGCTGAGCGAGCGAGACGCAGCAAGCACAGGCTGGTGGTGTGTCAAGGACAATGGCGAGCCTCCGC
GCTCGGCCACCGCACGCTGCACGTCTCTGGTGGACGGCTTCTCCAGCCCTACCTGCCTCTCCCTGA
GGCGGCCCGGCCAAGCCAGGCGGACTCTCTACCGTCTACCTGGTGGTGGCGTTGGCCTCGGTGTCG
TCGCTCTTCTCTTTTGGTGTCTCTGTTGCGTGGCGGTGCGGCTGTGCAGGAGGAGCAGGGCGGCTCGG
TGGGTGCTACTCGGTGCCCGAGGGTCCCTTCCAGGGCATCTGGTGGATGTGAGCGGCACCGGGACCCCT
ATCCCAGAGCTACCAGTACAAGGTGTGTCTGACGGGAGGCTCAGAAACAATGAGTTCAAGTTCTGGAAG
CCGATTATGCCAACTTCCCTCCTCAGGGCACTGAGAGAGAAATGGAAGAAACCCCACTCTCGGAATA
GCTTCCCGTTCAGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239235 representing NM_001303145
Red=Cloning site Green=Tags(s)

MLLKISEITMPGKIFPLKMAHDLDTGSNGLQRYTISSNPHFHVL TRNRSEGRKFPELVLDKPLDREEQPQ
 LRLTLIALDGGSPPRSGTSEIQIQLVDINDNVPEFAQEL YEAQVPENNLGSLVITVSARDLDAGSFGKV
 SYALFQVDDVNQPF EINAITGEIRLRKALDFEEIQSYDVDVEATDGGGLSGKCSLVVRVLDVNDNAPELT
 MSFFISLIPENLPEITVAVFSVSDADSGHNQQVICSIENLLPFLLRPSVENFYTLVTEGALDRESAEYN
 ITITVTDLGTPLKTTQSSITVQVSDVNDNAPAFQT SYTLFVRENNSPALHIGSVSATDRDSGINAQVTY
 SLLPPQDPLPLSSLVSINADNGHLFALRSLDYEALQSFEFRVGATDRGSPALSSSEALVRLLVLDANDNS
 PFVLYPLQNGSAPCTELVPRAAEPGYLVTKVVAVDGDSGQNAWLSYQLLKATELGLFGVWAHNGEVRTAR
 LLSERDAKHRLVVLKDNGEPPRSATATLHVLLVDGFSQPYLPLPEAAPAQADSLTVYLVVALASVS
 SLFLFVLLFVAVRLCRRSRAASVGRYSVPEGPFPHGLVDVSGTGTL SQSYQYKVLCTGGSETNEFKFLK
 PIMPNFPPQGTEREMEETPTSRNSFPFS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001303145

ORF Size: 1974 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001303145.2](#)

RefSeq Size: 3061 bp

RefSeq ORF: 1977 bp

Locus ID: 56130

UniProt ID: [Q9Y5E3](#)

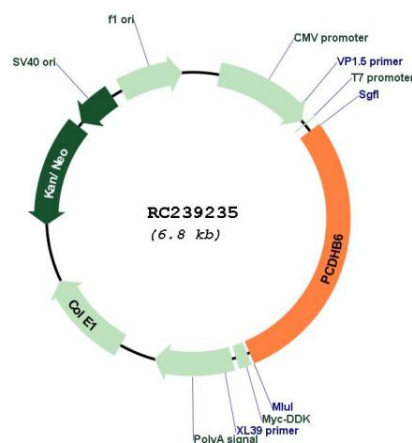
Cytogenetics: 5q31.3

Protein Families: Transmembrane

MW: 72.2 kDa

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. Unlike the alpha and gamma clusters, the transcripts from these genes do not share common 3' exons. These neural cadherin-like cell adhesion proteins are integral plasma membrane proteins that most likely play a critical role in the establishment and function of specific cell-cell neural connections. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]

Product images:



Circular map for RC239235