

Product datasheet for **RC207719**

PCDHB15 (NM_018935) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHB15 (NM_018935) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PCDHB15
Synonyms:	PCDH-BETA15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC207719 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGCCTGCAGGGGAGCGCTTCCCGAACAAAGGCAAGTCCTGATTCTCCTTCTTTACTGGAAGTGA
CTCTGGCAGGCTGGGAACCCCGTCGCTATTCTGTGATGGAGGAAACAGAGAGAGGTTCTTTTGTAGCCAA
CCTGGCCAATGACCTAGGGCTGGGAGTGGGGGAGCTAGCCGAGCGGGGAGCCCGGTAGTTTCTGAGGAT
AACGAACAAGGCTTGCAGCTTGTCTGCAGACCGGGCAGTTGATATTAATGAGAAGCTGGACCGGGAGA
AGCTGTGTGGCCCTACTGAGCCCTGTATAATGCATTTCCAAGTGTACTGAAAAACCTTTGGAAGTATT
TCGAGCTGAACACTAGTGACAGACATAAACGATCATTCTCCTGAGTTTCTGAAAGAGAAATGACCCTG
AAAATCCAGAACTAGTCCCTGGGACTGTGTTTCTCTGAAAAAGCTCGGGACTTGGACGTGGGCA
GCAATAATGTTCAAACTACAATATTTCTCCAATTCTCATTTCATGTTTCCACTCGCACCCGAGGGGA
TGGCAGGAAATACCCAGAGCTGGTGTGGACACAGAAGTGGATCGCGAGGAGCAGCCGAGCTCAGATTA
ACCTTGACAGCGGTGGACGGTGGCTCTCCACCCGATCTGGCACCGTCCAGATCCTCATCTTGGTCTTGG
ACGCCAATGACAATGCCCGGAGTTTGTGACGGCGCTCTACGAGGTGCAGTCCCAGAGAACAGCCAGT
AGGCTCCCTAGTTGTCAAGGTCTCTGCTAGGGATTTAGACTGGGACAAATGGAGAGATATCATACTCC
CTTTATTACAGCTCTCAGGAGATAGACAAACCTTTTGGAGTAAGCAGCCTTTTCCAGGAGAAATTCGACTAA
TAAAAAACTAGATTTTGGAGACAATGTCTTCGTATGATCTAGATATAGAGGCATCTGATGGCGGGGACT
TTCTGGAAAATGCTCTGTCTGTGTTAAGGTGCTGGATGTTAACGATAACTTCCCGAACTAAGTATTTCA
TCACTTACCAGCCCTATCCCGAGAATTCTCCAGAGACAGAAGTGGCCCTGTTTAGGATTAGAGACCGAG
ACTCTGGGAAAAATGAAAAATGATTTGCTCAATTCAGGATGATGTTTCTTTTAAAGTAAAACTTCTGT
TGAGAATTTCTACAGGCTGGTAACAGAAGGGCGCTGGACAGAGAGACCAGAGCCGAGTACAACATCACC
ATCACCATCACAGACTTGGGACTCCAAGGCTGAAAAACGAGCAGAGCATAACCGTGCTGGTGTGCGACG
TCAATGACAACGCCCCCGCTTCAACCAAACTCCTACACCCTGTTGTCGCGGAGAACAACAGCCCGC
CCTGCACATCGGCAGTGTCCGCGCAACAGACAGAGACTCGGCACCAACGCCAGGTCACTACTCGCTG
CTGCCGCCAGGACCCGACCTGCCCTCACCTCCCTGGTCTCCATTAAACAGGACAACGGCCACCTGT
TCGCTCTCCAGTCGCTGGACTACGAGGCCCTGCAGGCTTTCGAGTTCGCGTGGGCGCCACAGCCGCG
CTTCCCGCGCTGAGCAGCGAGGCGCTGGTGCAGTGTGGTGTGGACGCCAACGACAACCTCGCCCTT
GTGCTGTACCCGCTGCAGAACGGCTCCGCGCCCTGCACCGAGCTGGTGCCTGGGCGGCCGAGCCGGCT
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CAAGGCCACGGAGCCCGGCTGTTCCGGCTGTGGGCGCAATGGCGAGGTGCGCACCGCCAGGCTGCTG
AGCGAGCGCGACGTGGCCAAGCACAGGCTAGTGGTGTGGTCAAGGACAAATGGCGAGCCTCCGCGCTCGG
CCACCGCCACGCTGCAAGTGTCTCCTGGTGGACGGCTTCTCTCAGCCCTACCTGCCGCTCCAGAGGGCGC
CCCGGCCAAGCCAGGCCGACTCGTTACCGTCTACCTGGTGGTGGCATTGGCCCTCGGTGTCTTCGCTC
TTCTCTTCTCGGTGTTCTGTTCTGTTGCGAGTGGCGCTGTGCAGGAGGAGCAGGGCGGCCCTCAGTGGGT
GCTGCTCGGTGCCGAGGGCCCCCTTCCAGGGCATCTGGTGGACGTGAGCGGCACCGGGACCCCTTCCCA
GAGCTACCAGTACGAGGTGTCTGACGGGAGGCTCTGAAAGTAATGATTTCAAGTCTTGAAGCCATATA
TTCCAAATATTGTAAGCCAGGACTCTAGGAGGAAATCAGAATTTCTAGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC207719 protein sequence
Red=Cloning site Green=Tags(s)

MEPAGERFPEQRQVLILLLEVTLAGWEPRRYSVMEETERGSFVANLANDLGLGVGELAERGARVISED
NEQGLQLDLQTGQLILNEKLDREKLCGPTEPCIMHFQVLLKKPLEVFRAELLVTDINDHSPEFPEREMTL
KIPETSSLGTVFPLKKARDLDVGSNNVQNYNISPNSHFHVSTRTRGDGRKYPELVLDTELDREEQAE LRL
TLTAVDGGSPPRSGTVQILILVLDANDNAPEFVQALYEVQVPENSPVGSLLVVKVSARDLDTGTNGEISYS
LYSSQEIDKPFELSSLSGEIRLIKKLDFETMSSYDLIEASDGGGLSGKCSVSVKVLVDVNDNFPELSIS
SLTSPIPENSPETEVALFRIRDRDSGENGMICSIQDDVPFKLKPSVENFYRLVTEGALDRETRAEYNIT
ITITDLGTPRLKTEQSITVLVSDVNDNAPFTQTSYTLFVRENNSPALHIGSVRATDRDSGTNAQVTYSL
LPPQDPHPLTSLVSDVNDNAPFTQTSYTLFVRENNSPALHIGSVRATDRDSGTNAQVTYSL
VLYPLQNGSAPCTELVPRAAEPGYLVTKVVAVDGDSGQNAWLSYQLLKATEPGLFGVWAHNGEVRTARLL
SERDVAKHRLVVLVKDNGEPPRSATATLQVLLVDGFSQPYLPLPEAAPAQADSLTVYLVVALASVSSL
FLFSVFLFVAVRLCRRSRAASVGRCSVPEGPFPGHLVDVSGTGTLSSQSYQYEVCLTGGSESNDFKFLKPI
FPNIVSQDSRRKSEFLE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6516_d08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018935

ORF Size: 2361 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_018935.4](#)

RefSeq Size: 2891 bp

RefSeq ORF: 2364 bp

Locus ID: 56121

UniProt ID: [Q9Y5E8](#)

Cytogenetics: 5q31.3

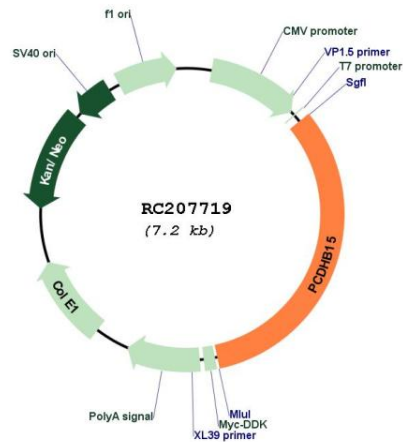
Domains: CA

Protein Families: Transmembrane

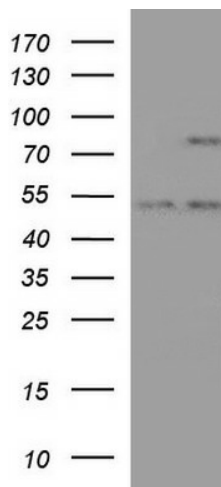
MW: 86.4 kDa

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. 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]

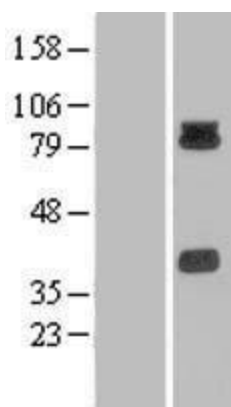
Product images:



Circular map for RC207719



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PCDHB15 (Cat# RC207719, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PCDH(Cat# [TA590485]). Positive lysates [LY412947] (100ug) and [LC412947] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY412947]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207719 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).