

Product datasheet for **RC206237**

PCDHB16 (NM_020957) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHB16 (NM_020957) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PCDHB16
Synonyms:	ME1; PCDH-BETA16; PCDH3X; PCDHB8a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC206237 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGATTGGATGGATGCACAATCGGAGACAAAGGCAAGTCCTTGTCTTTGTTTTGCTGAGCTTGT
 CTGGGGCGGGCGCGAGTTGGGGTCTATTCCGTAGTGAAGAAAACGGAGAGAGGCTCTTTTGTGGCAAA
 TCTAGGAAAAGACCTGGGGTTGGGGTTGACAGAGATGTCCACCCGCAAGGCCAGGATCATTCCAGGGG
 AACAAACAGCATTTCAGCTCAAGGCTCAAAGTGGGGATTGCTCATAAATGAGAAGCTAGATCGAGAGG
 AGCTATGCGGTCCACTGAGCCTTGCACTACTACATTTCCAAGTGTAAATGGAAAACCTTTAGAAAATATT
 TCAGGCTGAAGTGGGTGATAGATATAAATGACCATTCTCCATGTTCACTGAAAAGGAAATGATTCTA
 AAAATACCGGAAAACAGTCTCTAGGAAGTGGTCCCTCTGAATCATGCTTTGGACTTGGACGTAGGAA
 GCAATAATGTTCAAACATAAAAATCAGCCCAAGCTCTCATTCCGGGTCTAATCCATGAATTCAGAGA
 TGGCAGGAAATACCTGAGCTAGTGTGGATAAAGAGCTGGATCGGGAGGAGGAGCTCAACTAAGATTA
 ACCTGACAGCGCTGGATGGTGGCTCTCCACCGGATCTGGAAGTCTCAGGTCCGTATTGAAGTGGTGG
 ACATCAATGATAACGCTCCTGAGTTGAGCAGCCATCTACAAAGTGCAGATTCCAGAGAACAGTCTCT
 TGGCTCCCTGGTTGCCACCGTCTCCGCCAGGGATTTAGACGGCGGAGCCAATGGAAAAATATCATACACA
 CTCTTTACGCTTCGGAGGATATTAGTAAAACCTTTGGAGGTAATCTATGACAGGGGAAGTTCGACTGA
 GAAAGCAAGTAGATTTGAAATGGTTACGTCTTATGAAGTGCGCATCAAAGCCACAGATGGGGGAGGTCT
 TTCAGGAAAGTGCACCTTCTCCTGCAGGTGGTGGACGTGAATGACAATCCCCACAGGTGACCATGTCT
 GCATCACCAGCCCCATCGCAGAGAAGTGCCTGAGATAGTAGTGTCTTTTACGCTTTTTCAGATCCTG
 ACTCCGAAACAATGGGAAGACGATTTCTCCATCCAGGAAGACCTTCCCTTTCTTCAAACCTTCAGT
 CAAGAACTTTTACACCTTGGTAACGGAGAGGACTCGACAGAGAAGCAAGAGCTGAATATAATATCACC
 CTCACCGTCACAGATATGGGACTCCAAGGCTGAAAACGGAGCACAACATAACAGTGCAGATATCAGATG
 TCAATGATAACGCCCCACTTTACCCAAACCTCTACACCCTGTTTCGTCGCGAGAACAACAGCCCCGC
 CCTGCACATCGGCAGCGTCAGCGCCACAGACAGAGACTCGGGCACCACGCCAGGTCACTACTCGCTG
 CTGCCGCCCAAGACCCGCACCTGCCCTCGCCTCCCTGGTCTCCATCAACGCGGACAACGGCCACCTGT
 TCGCCCTCAGGTGCTGGACTACGAGGCCCTGCAGGCTTTCGAGTTCGCGTGGGCGCCACAGACCGCGG
 CTCCCCCGCTGAGCAGAGAGGCGCTGGTGCCTGCTGGTGTGGACGCCAACGACAAGTCCGCCCTTA
 GTGCTGTACCCGCTGCAGAACGGCTCCGCGCCCTGCACTGAGCTGGTGGCCCGGGCGGCCGAGCCGGCT
 ACCTGGTGACCAAGGTGGTGGCGGTGGACGGCGACTCGGGCCAGAATGCCTGGCTGCTGACAGCTGCT
 CAAGGCCACGGAGCCCGGGCTGTTCCGTGTGTGGGCGCAATGGCGAGGTGCGCACCGCCAGGCTGCTG
 AGCGAGCGCAGCAGCAAGCAGAGGCTGGTGGTGTGGTCAAGGACAATGGCGAGCCTCCGCGCTCGG
 CCACCGCCACGCTGCACGTGCTCCTGGTGGACGGCTTCTCCAGCCCTTCTGCCGCTCCAGAGGGCGC
 CCCCAGCCAGACCCAGGCCAACTCGTCACTGTCTACCTGGTGGTGGCGTTGGCCTCGGTGTGTCGCTC
 TTCTCTTTTTCGGTGTCTCCTGTTCTGTCGGTGGCGCTGTGCAGGAGGAGCAGGGCGGCCCTCGGTGGCC
 GCTGCTCGATGCCTGAGGGCCCCCTTCCAGGGCGTCTGGTGGACGTAAGCGGCACCGGGACCCTGTCCCA
 GAGCTACCAATACGAGGTGTGCTGACAGGAGGCTCAGAAACAAGTGAAGTCAAGTTCCTGAAGCCGATT
 ATCCCCAACTTCTCTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC206237 protein sequence
Red=Cloning site Green=Tags(s)

MEIGWMHNRQRQVLVFFVLLSLSGAGAE LGSYSVVEETERGSFVANLGKDLGLG LTEMSTRKARIISQG
NKQHLQLKAQTGDLLINEKLDREELCGPTEPCILHFQVLMENPLEIFQAELRVIDINDHSPMFTEKEMIL
KIPENSPLGTEFPLNHALDLDVGSNNVQNYKISPSHFRVLIHEFRDGRKYPELVLDKELDREEEPQLRL
TLTALDGGSPPRSGTAQVRIEVVDINDNAPEFEQPIYKQVIPENSPLGSLVATVSARDLDGGANGKISYT
LFQPSEDI SKTLEVNPMTGEVRLRKQVDFEMVTSYEVRIKATDGGGLSGKCTLLLQVVDVNDNPPQVTMS
ALTSP IAENSPEIVVAVFSVSDPDSGNGKTISSIQEDLPFLLKPSVKNFYTLVTERALDREARAEYNIT
LTVTDMGTPRLKTEHNITVQISDVNDNAPTFTQTSYTLFVRENNSPALHIGSVSATDRDSGTNAQVTYSL
LPPQDPHLPLASLV SINADNGHLFALRSLDYEALQAFEFVVGATDRGSPAL SREALVRVLVLDANDNSPL
VLYPLQNGSAPCTELVPRAAEPGYLVTKVVAVDGDSGQNAWLSYQLLKATEPGLFGVWAHNGEVRTARLL
SERDAAKQRLVVLVKDNGEPPRSATATLHVLLVDGFSQPFLPLPEAAPGQTQANSLTVYLVVALASVSSL
FLFSVLLFVAVRLCRRSRAASVGRCSMEGPFPGRLVDVSGTGTL SQSYQYEVCLTGGSETSEFKFLKPI
IPNFSP

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6695_g03.zip

Restriction Sites: Sgfl-Mlul

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_020957.3](#)

RefSeq Size: 4549 bp

RefSeq ORF: 2331 bp

Locus ID: 57717

UniProt ID: [Q9NRJ7](#)

Cytogenetics: 5q31.3

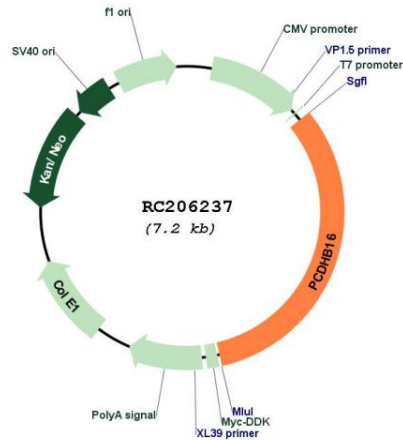
Domains: CA

Protein Families: Druggable Genome, Transmembrane

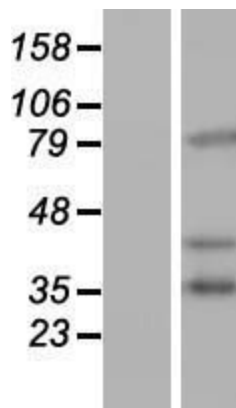
MW: 84.9 kDa

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 RC206237



Western blot validation of overexpression lysate (Cat# [LY412180]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206237 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).