

Product datasheet for **RC221985**

PCDHGB6 (NM_032100) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHGB6 (NM_032100) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PCDHGB6
Synonyms:	PCDH-GAMMA-B6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC221985 representing NM_032100
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGAGGGAGCTGCGCGCAGAGGCGCCGGGCCGCGCCGCGGCAGGTGCTATTTCTTTGCTGCTGCCTT
TGGTCTACCCACCCCTGAGTGAGCCGATCCGCTACTCGATTCCGGAGGAGCTGGCCAAGGGCTCGGTGGT
GGGAACCTCGTAAGGATCTAGGGCTCAGTGTCTGGATGTGTGCGCTCGCAAGCTGCGAGTGAGCGCG
GAGAAGCTGCACTTCAGCGTAGACGCGGAGAGCGGGGACTTACTTGTGAAGAACCGAATAGACCGTGAGC
AAATATGCAAAGAGAGAAGAAGATGTGAGTTGCAATTGGAAGCTGTGGTGGAAAACTCTTAAATATTTT
TCATGTCATTGTGGTATTGAGGATGTTAATGACCACGCCCTCAATTTGATAAAAAGGAAATACATTTA
GAAATTTTGAATCTGCATCCGCTGGTACAGACTATCGCTTGACCCTGCCACGGATCCTGATATAAACA
TAAACTCAATTAAGATTATAAGATAAACTCTAATCCTTATTTTTTCAATATGGTTAGAGTTAATCCGA
TGGTGGCAAATACCCAGAGTTATCTCTGGAGAACTCCTAGACCGGGAAGAACAGAGATCTCATAGCTTG
ATATTGACTGCCTTGGACGGAGGGGACCCACCAAGAAAGTCCACCGCTCATAGAAATTTCTGTCAAGG
ATACCAATGATAACCCCGGTTTTTCAGCAGAGACGAATATAGAATTAGTCTTAGTGAAAATCTGCCCC
TGGGTCCCTGTGTTGCAAGTGACAGCCACTGACCAGGATGAGGGGGTCAATGCTGAGATAAACTACTAC
TTCCGAAGCACTGCCAGAGCACAACATATGTTCTCATTGGATGAGAAAACAGGTATGATTAAGAATA
ACCAGTCATTTGATTTTGAAGATGTAGAAAAGGTACACCATGGAAGTGAAGCGAAGGACGGAGGTGGTCT
CTCTACCCAGTGTAAAGTAATCATAGAAATCCTTGATGAAAACGACAACAGCCAGAAATATCATCACT
TCTCTCTGATCAGATTTTGGAGAATTCACCTCAGGAATGGTGTGTCCTCTTCAAAACACGGGATC
TGGATTTTCGGAGGAAATGGAGAAGTCAGGTGTAATATAGAAAACAGACATCCATTCAAGATTTATCTTC
TTCCAATAACTACTACAACCTGGTGACAGATGGAGCCCTGGACCGAGAGCAGACACCAGAATACAATGTC
ACCATCGTAGCCACTGACAGGGCAAGCCGCTCTTTCTTCCAGTAGAAGCATCACCTTGTATGTCGCTG
ACATCAACGACAACGCCAGTTTTTCGACCAGACGTCCTACGTGGTCCACGTGGCCGAGAACAACCCGCC
AGGAGCCTCCATTGCGCAAGTGAGCGCCTCTGACCCGGATTTGGGGCTCAATGGCCACATCTCCTACTCT
ATAGTGGCGAGTGACCTAGAGCCCTGGCGGTGTCGTACACGTGTCAGTGAGCGCGCAGAGCGGGTGG
TGTTTCGCGCAGCGCCCTTGTATCAGGACGCTGCGCGCCTTCGCGCTCAGCTGCAGGCCCGCGACCA
CGGCTCGCCACGCTCAGCGCAACGTGAGCCTGCGCGTGTGGTGGGAGACCGCAATGACAACGCACCG
CGGTGCTGTACCCAGCTCTGGGTCTGACGGCTCCGCGTCTTCGATATGGTACCTCGCTGCAGAGC
CCGGCTACCTAGTGACTAAGGTGGTAGCGGTGGACGCCGACTCGGGACACAACGCCTGGCTGCCTACCA
CGTGTGCAGGCCAGTGAGCCCGGACTTTCAGCTGGGGCTGCGCACTGGGGAGGTGCGCACGGCTCGA
GCCTTAGGCGACAGGGACGCAGCCCGCCAGCGCCTGCTGGTGCCTGTGCGTGACGGTGGACAGCCGCCAC
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CCGCCCTGACTCTCTGACCCCAAGGCTGAACTGCAGTTTTACCTGGTGGTGGCCTTGGCCTAATCTCA
GTGCTCTTCTCCTCGCCGTGATTTGGCCATTGCCTTGCCTGCGACGCTCTCTCAGCCCTGCTACTT
GGGACTGCTTCCATCCTGGTCTCTGTGTCAAGTCTGGACCTGTAGTTCCCCCAACTACAGTGAGGGGAC
TTTGCCTTATTCTTATAATCTGTGCAATGCACATACGGGTACAAAAGAGTTTAATTTCTAAAATGCAGT
GTGCCCTACATTCCAATGAAGACATGGTTTGCAGTGTCTCCTCGGACCTTAATTCACCTCATGGTG
GGGAGATTTGACTTCACATCCTGAGACTCTGACTTCGGTGAGTTTCTTTTTTGTGTGTATTTATCT
AATAGTCTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC221985 representing NM_032100
Red=Cloning site Green=Tags(s)

MGGSCAQRRRAGPRQVLFPLLLPLFYPTLSEPIRYSIPEELAKGSVVGNLAKDLGLSVLDVSARKLRVSA
EKLHFSVDAESGDLLVKNRIDREQICKERRRCELQLEAVVENPLNIFHVI VVIEDVNDHAPQFDKKEIHL
EIFESASAGTRLSLDPATDPDININSIKDYKINSNPYFSLMVRVNSDGGKYPELSLEKLLDREEQRSHSL
ILTALDGGDPPRSATAHIEISVKDTNDNPPVFSRDEYRISLSENLPFGSPVLQVTATDQDEGVNAEINYY
FRSTAQSTKHMFSLDEKTMGIKNNQSFDFEDVERYTMEVEAKDGGGLSTQCKVIIIEILDENDNSPEIIIT
SLSDQILENSPPGMVVALFKTRDLDFGGNGEVRNICIETDIPFKIYSSSNYYKLVTDGALDREQTPEYNV
TIVATDRGKPPPLSSRSITLYVADINDNAPVFDQTSYVVHVAENPPGASIAQVSASDPDLGLNGHISYS
IVASDLEPLAVSSYVSVAQSGVFAQRAFDHEQLRAFALTLQARDHGSPTLSANVSLRVLVGDRNDNAP
RVLYPALGPDGSAFFDMVPRSAEPGYLVTKVVAVDADSGHNAWLSYHVLQASEPGLFSLGLRTGEVRTAR
ALGDRDAARQLLVAVRDGGQPPLSATATLHLVFADNLQEILPDLSDRPVLSDPQAEQLFYLVVALALIS
VLFLLAVALIALRLRRSLSPATWDCFHPGLCVKSGPVVPPNYSEGTLPYSYNLCIAHTGTKEFNFLKCS
VPLHSNEDMVCSVSPGALIPPHGGEDLTSHPETLTSVSFSFLCVIYLIVY

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8103_a07.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



ACCN: NM_032100

ORF Size: 2460 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_032100.1](#), [NP_115271.1](#)

RefSeq Size: 2463 bp

RefSeq ORF: 2463 bp

Locus ID: 56100

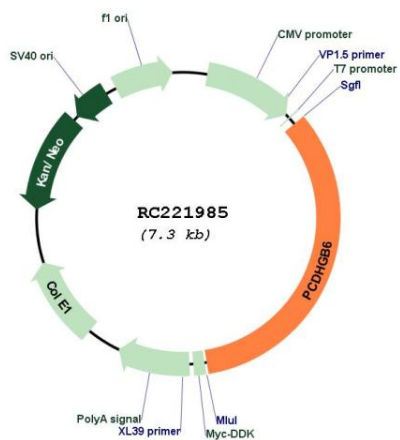
UniProt ID: [Q9Y5F9](#)

Cytogenetics: 5q31.3

MW: 89.8 kDa

Gene Summary: This gene is a member of the protocadherin gamma gene cluster, one of three related clusters tandemly linked on chromosome five. These gene clusters have an immunoglobulin-like organization, suggesting that a novel mechanism may be involved in their regulation and expression. The gamma gene cluster includes 22 genes divided into 3 subfamilies. Subfamily A contains 12 genes, subfamily B contains 7 genes and 2 pseudogenes, and the more distantly related subfamily C contains 3 genes. The tandem array of 22 large, variable region exons are followed by a constant region, containing 3 exons shared by all genes in the cluster. Each variable region exon encodes the extracellular region, which includes 6 cadherin ectodomains and a transmembrane region. The constant region exons encode the common cytoplasmic region. These neural cadherin-like cell adhesion proteins most likely play a critical role in the establishment and function of specific cell-cell connections in the brain. Alternative splicing has been described for the gamma cluster genes. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC221985