

Product datasheet for **RC221870**

PCDHGB3 (NM_032097) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHGB3 (NM_032097) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PCDHGB3
Synonyms:	PCDH-GAMMA-B3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC221870 representing NM_032097
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGAAATAGCTCCGGATGGAGGGGCCAGCAGGGCAGAGGCGAATGCTATTTCTTCTCTCTCTCTT
TGTTAGACCAGGTTCTCTCCGAACCGATCCGCTACGCTATTCGAGGAGCTGGACAGGGGCTCGCTGGT
AGGGAACCTCGCCAAGGACCTGGGGTTTGGCGTGGGGATTACCTACTAGGAACCTGCGGGTTATTGCA
GAGAAGAAATCTTTACCGTGAAGCCGAAAATGGGAACCTACTTGTGAGCGACCGTATAGACCGAGAGG
AGATTTGTGGCAAGAAGTCGACGTGTGTTCTGGAATTTGAAATGGTTGCTGAAAAGCCTTTAAACTTTTT
TCATGTAAGTGTCTGATCCAGGATTAACGACAACCCACCGACCTTTAGCCAAAATATCACTGAGCTG
GAAATCAGCGAAGTGGCTCTCACTGGAGCCACATTTGCCCTGGAATCTGCGCAAGATCCTGATGTAGGTG
TCAATTCGCTGCAGCAGTACTACCTCAGCCCTGATCCGCATTTCTTTGATTGAGAAGGAGAACCTGGA
TGGCAGTAGTACCCAGAGCTAGTACTGAAAGCACCCCTGGACAGGGAAGAGCAGCCACATCACCACCTG
GTCTCACAGCTGTGGATGGGGGCGAGCCCTCCAGAAGCTGTACCACCCAGATCAGGGTAATTTGTCGAG
ATGCAAAATGATAACCCCCAGTATTTACTCAGGACATGTACAGGGTCAATGTTGCAGAGAACCTGCCCGC
TGGCTCTCCGTATTAAGTGTATGGCCATTGACATGGATGAGGGCATCAATGCCAAAATCATCTATGCC
TTCATCAATATTGGCAAGGAAGTGAAGAGAGAGATAGCTACACAATTGGGGTGAAGCAAAGGATGGTGGACATCA
CACTGCATATTGTAAGTACAGATAGATATTTAGATGAAAATGACAATGCCCGGAGATAACCCCTGGCT
TCTGAATCCCAACATATAACAAGAAGTGTGAGCTGGGGACTGCCGTTGCCCTGATCAAAACACATGATC
TAGATTTGGATTTAATGGAGAAATCCTATGCCAACTAAAAGGAAACTTCCCTTTAAAATCGTTCAAGA
TACCAAAAACACATACAGGTTGGTGACAGATGGAGCCCTGGACCGGAGCAGATCCAGAATAACAATGTG
ACGATCACAGCTACCGACAAGGCAATCCACCGCTCTCCTCCAGCAAGACCATCACTCTGCACATCCTTG
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TGGAGCTCCATTGCGCATGTCAGAGCCTCGGATCCCGACTTGGGACCTAATGGCCTTGTCTCTACTAC
ATCGTGGCCAGTGACCTGGAGCCGCGGGAGCTGTCGTCTACGTGTCCGTGAGCGCGGGAGCGGGTGG
TGTTGCGCGCAGCAGCCTCGACCACGAGCAGCTGCGTGCCTCGAGCTCACTCTGCAGGCCCGCGACCA
GGGCTCGCTACGCTCAGCGCAACGTGAGCCTGCGCGTGTGGTGGACGACCGCAACGACAATGCACCG
CTGGTGTGTACCCAGCTCTGGGGCCGAAGGCTCTGCGCTCTTCGATATGGTGGCCGCTCTGCAGAGC
CTGGCTACCTGGTGACCAAGGTGGTGGCGGTGGACGCAGACTCGGGATACAACGCCTGGCTGTCTACCA
CATTGTGCAGGCCAGCGAGCCCGGGCTGTTGAGCCTGGGCTGCGCACGGGTGAGGTGCGCACGGCGCT
ACCTTGGGCGACAGGGAGGCCCGCCGCGCAGCGCTGCTGGTCACTGTGCGTGATGGAGGACAGCAGCCTC
TTTCAGCCACCGTCATGCTGCACCTAATCTTCGCAGATAGCTTGAAGAGATACAACCTGACCTTAGCGA
CCGCCCACTCCCTCTGACCCTCAGCGGAGCTACAGTTTACCTAGTAGTGGCGTTGGCCTTGATCTCA
GTGCTCTTCTCCTCGCGGTGATTTGGCAATCTCCCTGCGCCTGCGATGCTCTCCAGACCCGCCACTG
AGGGCTACTTTAGCCTGGTGTCTGCTTCAAGACTGTACCTGGAGTTCTCCACCTACAGCGAAAGGAC
TTTGCCTTATTCCTACAATCCGTGTGCTGCCTCACATTCCTCAAACACCGAGTTTAAATTTCTCAATATA
AAGGCTGAAAATGCTGCACCACAAGATCTTCTATGTGATGAAGCCTCTTGGTTTGAAGTAAATGACAATC
CAGAAATGCCTTCTAATTCAGGCAATTTGCAAAAGGTGAGTTTCTCAAACCTTTCTTCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC221870 representing NM_032097
 Red=Cloning site Green=Tags(s)

MGNSSGWRGPAGQRRMLFLFLLSLLDQVLSEPIRYAIPPEELDRGSLVGNLAKDLGFGVGDLPTRNLRVIA
 EKKFFTVPENGNLLVSDRIDREEICGKKSTCVLEFEMVAEKPLNFFHVTVLIQDINDNPPTFSQNITEL
 EISELALTGATFALESAQDPDVGVNSLQQYYLSPDPHFSLIQKENLDGSRYPELVKAPLDREEQPHHHL
 VLTAVDGGEPSRSCTTQIRVIVADANDNPPVFTQDMYRVNVAENLPAGSSVLKVMIDMDEGINAEIYYA
 FINIGKEVRQLFKLDSKTGELTTIGELDFEERDSYTIIGVEAKDGGHHTAYCKVQIDISDENDNAPEITLA
 SESQHIQEDAELGTAVALIKTHDLDSGFNGEILCQLKGNFPFKIVQDTKNTYRLVTDGALDREQIPEYNV
 TITATDKGNPPLSSSKTITLHILDVNDNVPVFHQASYTVHVAENPPGASIAHVRA SDPDLGPNGLVSY
 IVASDLEPRELSSVVSARSVVFAQRAFDHEQLRAFELTLQARDQGSPTLSANVSLRVLVDDRNDNAP
 LVLYPALGPEGSALFDMVPRSAEPGYLVTKVVAVDADSGYNAWLSYHIVQASEPGLFSLGLRTGEVRTAR
 TLGDREAAARQLLVTVRDGGQQPLSATVMLHLIFADSLQEIQPDLSDRPTSDPQAEQLQFHLVVALALIS
 VLFLLAIVILAIISLRRCSSRPATEGYFQPGVCFKTVPGVLPYERTLPYSYNPCAASHSSNTEFKFLNI
 KAENAAPQDLLCDEASWFESNDNPEMPSNSGNLQKVSFFKPFPLP

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

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_032097.1](#), [NP_115268.1](#)

RefSeq Size: 2445 bp

RefSeq ORF: 2445 bp

Locus ID: 56102

UniProt ID: [Q9Y5G1](#)

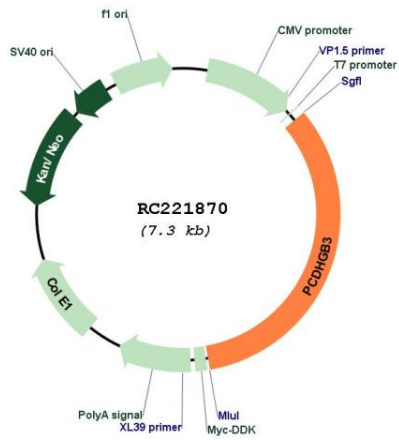
Cytogenetics: 5q31.3

Protein Families: Transmembrane

MW: 86 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 RC221870