

Product datasheet for **SC113328**

PCDHGC5 (NM_018929) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHGC5 (NM_018929) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCDHGC5
Synonyms:	PCDH-GAMMA-C5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_018929, the custom clone sequence may differ by one or more nucleotides

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ATGGGGCCCAAGACACTCCCACAGCTCGCTGGGAAATGGCAAGTGTGTGCATGTTGTCCTTGTGCTGCT
GGGGCTGGGTGTCTGGGACGCTTCGTTACTCAGTGGTGGAGGAGTCTGAGCCGGGGACGCTGGTGGGGAA
TGTTGCTCAGGATCTGGGCTTAAAGATGACAGATCTGTTGAGCCGGCGGTGCAATTGGGCTCTGAGGAG
AATGGGGCTATTTTTCCCTGAGCTTGATGAGTGGTGCCCTGGCAGTGAATCAAAAAGATTGACCGAGAAA
GCCTATGTGGAGCCAGCACCAGCTGCCTGCTGCCAGTGCAGGTGGTGAAGTGAACACCCCTGGAGCTAAT
CCGTGTAGAGGTAGAGATCCTGGATCTCAATGACAACCTCTCTAGCTTTGCCACCCTGAGCGAGAGATG
CGCATCTCAGAATCAGCAGCATCTGGGGACGATTCCCCTGGACAGTGGCCAGGATCCGGATGTGGGCA
CCAATACTGTGAGCTTTTACACTCTAAGCCCCAACAGCCACTTCTCTGAATGTGAAGACCCTAAAAGA
TGGGAAGCCATCCAGAGCTGGTGTAGAGCAGCAGCTGGATCGTGAAGCCAGGCAAGACATCAGCTG
GTGCTTACTGCTGTGGATGGGGGACCCAGCCGCTCAGGGACCACCCTTATCTCTGTCATCGTGTGG
ACATCAATGATAATGCTCCAACCTTCCAATCCTCAGTTCTACGTGTGGGAATCCCAGAGAATGCACCCAT
TGGTACTCTGCTGCTCCGCCTCAATGCCACTGATCCAGACGAGGGCACCAACGGCCAACCTAGACTATTCT
TTTGGAGACCACACATCTGAGGCAAGTGCAGAACCTCTTTGGCCTAGACCCTAGCAGTGGGGCAATCCATG
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GCCTGCCATGGAGGGCCACTGTGTGATTCAAGTGGATGTGGGGATGTCAATGACAATGCCCCAGAGGTG
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TGCGAGACCGGGACTCAGGTAGAAATGGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT
TAAGCCTTCTGAGAACCCTACTCGCTGCTAACCAGCCAGCCTTTGGACCGGGAGGCCACATCCCCTAT
ATCATCGAGCTGCTGGCCAGCGATGCTGGTTACCTTCCCTACACAAACATCTCACCATCAGCTCAACA
TTTCAGATGTCAATGACAATGCACCCCGCTTCAACCAGCAGCTTTACACTGCTTACATCCTAGAAAACCG
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GACGGATCTTTGCCAGCGTACCTTTGACTATGAATTGCTGCAGATGCTGCAGATTGTGGTGGGGTTGCG
AGACTCCGGCTCTCCCCATTGCATGCCAACACATCTCTGCATGTGTTTGTCTAGACGAGAATGATAAT
GCCCCAGCTGTGCTGCACCCACGGCCAGACTGGGAACACTCAGCCCCCAGCGTCTCCTCGCTGCTC
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CTCACTGTTGCCACAGTCCACAGCCCAGGACTGTTCTCGTGTCTACACACACTGGTGAGGTGCGCACA
GCCCGGGCCTTACTGGAGGATGACTCTGACACCCAGCAGGTGGTGGTCTGGTGAGGGACAATGGTGACC
TTCACTCTCCTCCACAGCCACAGTGTCTGCTGGTTCTGGAGGATGAGGACCTGAGGAAATGCCAAATC
CAGTGACTTCCTCATACACCCTCCTGAGCGTTCAGACCTTACCCTTTACCTCATTGTGGCTCTAGCGACC
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TCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGGGTCCCGGCACCATGGGATT
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GGCAGCAATGCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCA
ACAAGAAGAAGTCGGGCAAGAAGGAGAAGAAGTAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018929 unedited
 AAAACCCAATTCGCACGAGGCTCCTCCTCATTTCCTCCAGCTCCACTCAAATCAGCTCC
 CCTCCCCCTGCCACCCCGCCACTCGGTGACTAAGAACTGCTGCAAGCATGCAAACCT
 CCGAGCAGTTTTTAAGAGGCTGGAAGGAGACATAAGAGACTTCACCTGCTGCATTCCAAG
 TTTATGTTCTACCTGGAGACAGGACAGTACAGACTTACTCTCCACAAAGGGACTTCTGG
 GTCATGGGGCCCAAGACTCCACAGCTCGCTGGGAAATGGCAAGTGTGTCATGTTG
 TCCTTGTGCTGCTGGGGCTGGGTGCTGGGCAGCTTCGTTACTCAGTGGTGGAGGACTCT
 GAGCCGGGACGCTGGTGGGAATGTTGCTCAGGATCTGGGCTTAAAGATGACAGATCTG
 TTGAGCCGGCGGCTGCAATTGGGCTCTGAGGAGAATGGGCGCTATTTTTCCCTGAGCTTG
 ATGAGTGGTGCCCTGGCAGTGAATCAAAGATTGACCGAGAAAGCCTATGTGGAGCCAGC
 ACCAGCTGCCTGCTGCCAGTGCAGGTGGTACTGAAACCCCTGAAGCTAATCCCGCA
 GAGGTAGAGATCCTGGATCTCAATGACGACTCTCCTAGCTTTGCCACCCCTGAGCGAGAG
 ATGCGCATCTCAGAATCAGCAGCATGTGAGGCACGATTCCCACTGGACAGTGGCCATGAT
 CCGGATGTGGGCCAATACTGTGAAGCTTTACACTTTAAGCCCCACCGTCACTTCTTTCT
 GGATGTGAAACCCTAAGAATGGGAAACCATTCCAAAAATGGGGCTGGACCCCTCTG
 GATCTTGAACCAAGCAGAATAACCTGGTGCTTACTGCTGAGGAGGGGGACCCGGCCCC
 GTCTGGGCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_018929 unedited
 GACCGGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTCAGAAGAACGTTTTTA
 TTATTTTTTTGTCGAAGAAAAAAGCCTATAAATATTAGAGTATAAACTTGCCTGAGAC
 ACAGGAAGAGGGTGGGGTGGGAGCTACGTACTATGCGAAGAGAAGCGCTTATAGGAGAA
 GTCAGTACGGGGAGGGGTTCGCCTTAGCGCTGGACACAGCACAAAACAACACGGGGC
 CGCCGCGGGCAGATCAAGGACAGACGGCTGCGCGGAGCCCGCCCGCTGCCACCCGC
 CATCACGTAAGACACACCGCACTACACTACTGGCTATTCTACACCAGCCGAAAGAGGGA
 GGGGGCGCTACTACTGTAAGGGCAGGTCTGGGGTTCTCTGGCAGCCCCGCTGGATGGC
 CGGGGACCCAGGGGCAGAAGGGGTGGGAGAAGAAGGTCTATGCACAAGGAGGCACTGGG
 GAACTTTAACCAGGCTATGGCCACTAGGGGGCGCACTGGGACCTGGGCAGTGGCCTTCA
 CGGAAGAGAAAACGGCACCTGGCAAGGTGAAGACTGAGGCTTTCAGGAGGGCAGGGCCCT
 GTTGAAGAAGCCCCATCCTGGGCTGAGACTTTCTGTTTATTGGTCCCTGCCCTAGCTCC
 CTGCCTNCCCAACAGGACTAAGAATGGCTGGCTGGCCACCCTTCCCTGCTGGGCTCC
 GCTGCCCTTCCCAAGTGGCACCTCTGGAGTACCCAGCACCCACAGAGGCCCTCTGACC
 TCCAAGGGGACCTGGTNTAACCTGCTTCGAGCTCCCTGAACTGAAATGCAGNNTATCCA
 TTGNNCTGTAGCTACCNAAGCTGCTGCCTGGCTGACCTATATGANGGGGAAGGGCC
 AACTANTTTGGGTTATGCTGGATTGGAAGGATTGTCATCCCCGGGACTCAAACCTCTCA
 GGCTGAAACTGGAGGGCAGCTTGCCT

Restriction Sites:

NotI-NotI

ACCN:

NM_018929

Insert Size:

5000 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_018929.2](#), [NP_061752.1](#)

RefSeq Size: 4641 bp

RefSeq ORF: 2835 bp

Locus ID: 56097

UniProt ID: [Q9Y5F6](#)

Cytogenetics: 5q31.3

Domains: CA

Protein Families: Transmembrane

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]
Transcript Variant: This variant (1) includes the constant region exons and encodes the longest isoform (1).