

Product datasheet for **SC305439**

PCDHGC4 (NM_032406) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHGC4 (NM_032406) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCDHGC4
Synonyms:	PCDH-GAMMA-C4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >SC305439 representing NM_032406.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCTCCGCAAGGTGAGAAGCTGGACAGAAATCTGGCGGTGGGCTACCCTTTTGTCTCTTTTACCAC
CTGGGTTACGTTTGTGGGCAGATCCGCTACCCGGTCCCAGAGGAGTACAGGAAGGGACTTTGTAGGG
AATGTGCTCAAGATTTCTGCTGGATACGGACAGTCTGTGAGCTCGCAGGCTGCAGGTCGCTGGAGAG
GTGAACCAAAGACACTTCCGTGTGGATTGGACAGCGGAGCCCTGCTCATCAAGAACCCAATCGACCGA
GAGGCACTGTGTGGGCTCAGTGCCAGCTGCATCGTCCCTGGAGTTTGTACCGAAGGTCCTTTGGAA
ATGTACCGAGCAGAGGTAGAGATCGTAGATGTGAATGATCACGCCCCCGTTTCCGCGGCAGCAGCTG
GACTTGAAAATTGGGAGGCAGCTCCTCCAGGACAGCGTTTCCGTTGGAAAAGGCTCAGGATGCAGAT
GTGGGGAGCAATTCGATTAGCAGCTATAGGCTGAGCTCCAATGAACACTTTGCACTGGATGTGAAGAAG
CGCAGCGACGGCAGCCTGGTCCCAGAGCTGCTCCTGGAGAAGCCTTTGGATCGAGAGAAGCAATCGGAC
TACCGCCTGGTGCTGACTGCTGTCGATGGAGGGAACCCGCCGAGATCTGGCACCGCAGAGCTCCGGGTA
TCCGTGCTGGACGTAAACGACAACGCCAGCCTTCCAGCAATCCAGCTACAGGATTAGTGTGTTGGAG
AGCGCACCCAGCGGGCATGGTGCTCATCCAGCTCAATGCCTCAGACCCGGACCTGGGTCCCAGTGGTAAC
GTCACCTTTTATTTCACTGGTGCATACCCCTGATCGTGAAGAAACCTCTTTAGCCTGCACCCCACTACT
GGAAAGCTTACTCTTTTGGGGCCCTAGACTTTGAGAGTGAGAATTACTATGAATTTGATGTGCGGGCT
CGCGATGGGGTTCTCCAGCCATGGAGCAACATTGCAGCCTTCGAGTGGATCTGCTGGACGTAATGAC
AATGCCCTTACATCACAGTGACCTCAGAGCTTGAACCTCCCCGAGAGTGAGAACCTGGCACTGTG
GTGGCACTTATCAGTGTGAGGATCCAGACTCAGGCTCAAACGGAGATGTGAGCCTCCGATTCTGAC
CACTTGCCATTTGCCCTCAAGTCTGCCTTCAGGAACCACTTCTCCTGGTGACTGCTGGACCTTGGAT
CGAGAGGCCAAATCTAGCTATGACATCATGGTCACTGCTTCTGATGCTGGGAACCTCCTCTCAGTACC
CACAGAACTATTTTCTCAATATTTCAATGTGAATGATAATCCACCCTTTTCTTTAGAGGTACAT
GAGGTGTTTGTCTGAGAAATCGCCAGGGGACCTGCTTGTCTCTTGCAGCCTCTGACCCAGAC
TCTGGCTTGAATGCGCTTATCTCTACTCACTCCTGGAGCCAGGAATCGAGATGTATCAGTTCCTCT
TTCATCTCTTGAACCCCGACAGGAGCTGTTATGCTACTCGATCCTTTGACTATGAGCAACCCAG
ACACTGCAGTTTGGGTGAGGCCCGGGATCGGGGCAACCCACCCTTAGCAGCACTGTAACTGTCGT
CTATTTGTGCTGGACCTCAATGACAATGCTCCAGCTGTGCTCCGTCTCGGGCCCGGCTGGTTCCTTA
TGTCCTCAAGCACTGCCTCCATCAGTTGGTGCTGGCCACCTAATCACAAAGGTGACTGCTGTGGACTTG
GATTCAGGTTACAATGCTTGGGTTTCTATCAGCTCCTGGAGGCCCGAGATCCCAGCCTGTTTGCAGTC
TCTCGATATGCTGGGGAGGTGCGGACGGCTGTTCTATCCAGCTGACCTCCACACAGAGCTGGTC
ATTGTGGTAAAGGATAGTGGTAGTCCACCACTCTCTACCTCTGTTACTCTTTAGTGTCTTAGAGGAA
GACACTCATCCAGTTGTCCCAGATCTTCGAGAATCTTCAGCTCCAAGGGAAGGAGAATCTCGTCTAACC
CTCTACTTGGCTGTGTCCTAGTGGCAATTTGCTTTGTCTCTTTGGCTCATTCTGGCACTACTCTCT
AAGTGTCTTCTGGGGCAGCCTGTGGAGTACATGCTTTCCTGCTGGCACCTGTGCTGTCTCACCAGA
TCTCGAAGGAGGGAGGGCTTCCCCCTTCCAATGGGATCCTCCGAATCCAGCTAGGTCAGATGACCCT
ATCAAGTTTGTGATGTGGGAGGCCACTCTCATGGCTGTACACCCTTGGCTTCTGCACCCACTCGGAGT
GATAGCTTCATGATGGTGAAGTACCCAGTGCACCTATGGCAGGGGAGCCTGTTCCGCCAAGCTGCCCA
CCCTCTGATCTTCTATGGGCTAGAGGTGAGACCTTTGCAGGCTCAACAAATGCTTGAGGGTTATTCT
GATCCAGGCATATGGCTAGGCCATGTCCTAGAGAGTACTGGCCTCTCAGTAAGTGCCCATAGTGTGTC
ACCATTTTGTAAAGGTAACATATGTGGTAGACGCTGTGCTTTGTAAGTGTTCGTGAATTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

Restriction Sites: SgfI-MluI
ACCN: NM_032406
Insert Size: 2616 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_032406.1</u>
RefSeq Size:	2616 bp
RefSeq ORF:	2616 bp
Locus ID:	56098
UniProt ID:	<u>Q9Y5F7</u>
Cytogenetics:	5q31.3
Protein Families:	Transmembrane
MW:	94.5 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] Transcript Variant: This variant (2) utilizes the large, first exon then continues into the downstream intron 1 sequence before terminating. This one-exon transcript encodes the shorter isoform (2).