

Product datasheet for **RC211379**

PCDHGC3 (NM_032402) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHGC3 (NM_032402) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PCDHGC3
Synonyms:	PC43; PCDH-GAMMA-C3; PCDH2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC211379 representing NM_032402
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTCCCAGAGGCTGGAGGAGCGGACTGGTAAGCACCCGGAGGGTAGTGGGAGTTTTGCTTCTGCTTG
 GTGCCTTGAACAAGGCTTCCACGGTCATCACTATGAGATCCCGAGGAAAGAGAGAAGGGTTTCGCTGT
 GGGCAACGTGGTCGGAACCTTGGTTGGATCTCGGTAGCCTCTCAGCCCGCAGGTTCCGGGTGGTGTCT
 GGAGCTAGCCGAAGATTCTTTGAGGTGAACCGGGAGACCGGAGAGATGTTTGTGAACGACCGTCTGGATC
 GAGAGGAGCTGTGTGGGACACTGCCCTCTTGACTGTAACCTGGAGTTGGTAGTGGAGAACCCGCTGGA
 GCTGTTACAGCGTGAAGTGGTATCCAGGACATCAACGACAACAATCCTGCTTCCCTACCCAGGAAATG
 AAATTGGAGATTAGCGAGGCCGTGGCTCCGGGGACGCGCTTCCGCTCGAGAGCGCGCACGATCCCGATG
 TGGGAAGCAACTCTTTACAAACCTATGAGCTGAGCCGAAATGAATACTTTGCGCTTCGCGTGACAGCGG
 GGAGGACAGCACCAAGTACGCGGAGCTGGTGTGGAGCGCGCCCTGGACCAGAACGGGAGCCTAGTCTC
 CAGTTAGTGCTGACGGCGTTGGACGGAGGGACCCAGCTCTCCTCCGACGCTGCCTATTCACATCAAGG
 TGCTGGACGCGAATGACAATGCGCCTGTCTTCAACCAGTCCTTGTACCGGGCGCGCTCCTGGAGGATGC
 ACCCTCCGGCACGCGCTGGTACAAGTCCTTGCAACGGATCTGGATGAAGGCCCAACGGTGAATATTATT
 TACTCCTTCGGCACCCACAACCGCGCCGGCGTGGCGCAACTATTCGCTTAGACCTTGAACCGGGATGC
 TGACAATCAAGGGTGGCTGGACTTCGAGGACACCAAACTCCATGAGATTTACATCCAGGCCAAAGACAA
 GGGCGCAATCCCGAAGGAGCACATTGCAAAGTGTGGTGGAGGTTGGATGTGAATGACAACGCCCGG
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 TCAGTGTGACTGACCTGGATGCTGGCGAGAACGGGCTGGTACCTGCGAAGTTCCACCGGCTCCCTTT
 CAGCCTTACTTCTCCCTCAAGAATTACTTCACTTTGAAAACCAAGTGCAGACCTGGATCGGGAGACTGTG
 CCAGAATACAACCTCAGCATCACCGCCGAGACGCGGAACCCCTTCCCTCTCAGCCCTTACAATAGTGC
 GTGTTCAAGTGTCCGACATCAATGACAACCTCCACAATCTTCTCAATCTTCTACGACGTTTACATTGA
 AGAAAACAACCTCCCGGGGCTCCAATACTAAACCTAAGTGTCTGGACCCCGACGCCCGCAGAATGCT
 CGGCTTTCTTTCTTCTTGGAGCAAGGAGCTGAAACCGGGCTAGTGGTGCCTATTTACAATAAATC
 GTGACAATGGCATAGTGTATCCTTAGTGCCCTAGACTATGAGGATCGGCGGGAATTTGAATTAACAGC
 TCATATCAGCGATGGGGCACCCGGTCTAGCCACCAACATCAGCGTGAACATATTTGCTACTGATCGC
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 GAGACCTATACCGAGCCCGGTGAGTCACTGTACCGAACACCCAGGGCCCTCTTGACGCGGACGCGCT
 GCGGGGAGGCCTGATGTCGCCGACCTTTACCATCAGGTGTATCTCACCGGACTCCCGCCGACGCGAC
 CCCTGCTGAAGAAACCTGGTGCAGCCAGTCCACTGGCCAGCCGACGAGAACACGCTGCGGAGCTGTGATC
 CGGTGTTCTATAGGCAGGTGTTGGTGCAGAGAGCGCCCTCCCGGACAGGTAAGGTTTAGCAAGTCATG
 CTTGACCTGTTAGTGTCTTTTATTCTACATCATATTGAGGAAGGAATGGAGCTGTTTTTTAGTGAT
 GAAGATGTTTTCTGGTGTGATTCACACTTTCAACTGGCCCTCTAGATCAAAGTTAGTGCCTTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC211379 representing NM_032402
 Red=Cloning site Green=Tags(s)

MVPEAWRSGLVSTGRVVGVL LLLGALNKASTVIHYEIPEREKGFVGNVAVNLGLDLGSL SARRFRVVS
 GASRRFFEVRNRETGMFVNDRLDREELCGTLP SCTVTLELVENPLELFSVEVVIQDINDNPAFPTQEM
 KLEISEAVAPGTRFPLESAHDPDVGSNLQTYELSRNEYFALRVQTREDSTKYAELVLERALDREREPSL
 QLVL TALDGGTPAL SASLPIHIKVL DANDNAPVFNQSLYRARVLEDAPSGTRVVQVLATDLDEGPNGEII
 YSFGSHNRAGVRQLFALDLVTGMLTIKGR LDFEDTKLHEIYIQAKDKGANPEGAHCKVLVEVVDVNDNAP
 EITVTSVYSPVPEDAPLGTVIALLSVTDLDAGENGLVTCEVPPGLPFLTSSLKNYFTLKT SADLDRETV
 PEYNLSITARDAGTPSL SALTIVRVQVSDINDNPPQSSQSSYDVYIEENNLPGAPILNLSVWDPDAPQNA
 RLSFFLLEQGAETGLVGRYFTINRDNGI VSSLVPLDYEDRREFELTAHISDGGTPVLATNISVNI FVTDR
 NDNAPQVLYPRPGSSVEMLPRGTSAGHLVSRVVGWDADAGHNAWLSYLLGSPNQSLFAIGLHTGQIST
 ARPVQDTSRQTLTVL IKDNGEPSLSTATL TVSVTDSPEARAEFPGSAPREQKKNLTFYLLLSLIL
 VSVGFVTVFVGIIFKVYKWKQSRDLYRAPVSSLYRTPGPSLHADAVRGGMLSPHLYHQVYLTDSRRSD
 PLLKKPGAASPLASRQNTLRSCDPVFYRQVLGAESAPPGQVRF SKSCLTLLVLFYSYIILRKEWSCFFSD
 EDVFLVMHSHFQLALPRSKLVPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

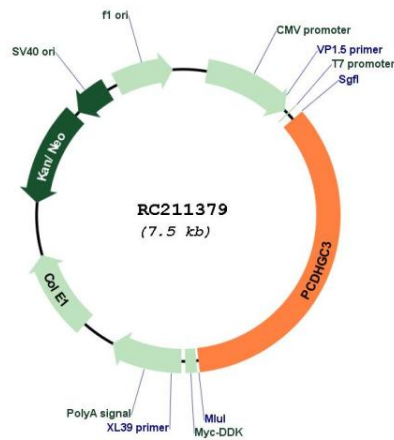
Cloning Scheme:



ACCN:	NM_032402
ORF Size:	2589 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:	<ol style="list-style-type: none">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_032402.2
RefSeq Size:	2794 bp
RefSeq ORF:	2592 bp
Locus ID:	5098
UniProt ID:	Q9UN70
Cytogenetics:	5q31.3
Domains:	CA
Protein Families:	Transmembrane
MW:	91.2 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 RC211379