

Product datasheet for **RG211379**

PCDHGC3 (NM_032402) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHGC3 (NM_032402) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PCDHGC3
Synonyms:	PC43; PCDH-GAMMA-C3; PCDH2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG211379 representing NM_032402
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGGATCGCC

ATGGTCCCAGAGCCTGGAGGAGCGGACTGGTAAGCACCCGGAGGGTAGTGGGAGTTTTGCTTCTGCTTG
GTGCCTTGAACAAGGCTTCCACGGTCATCACTATGAGATCCCGAGGAAAGAGAGAAGGGTTTCGCTGT
GGCAACGTGGTCGGAACCTTGGTTGGATCTCGGTAGCCTCTCAGCCCGCAGGTTCCGGGTGGTGTCT
GGAGCTAGCCGAAGATTCTTTGAGGTGAACCGGGAGACCGGAGAGATGTTTGTGAACGACCGTCTGGATC
GAGAGGAGCTGTGTGGGACACTGCCCTCTTGACTGTAACCTGGAGTTGGTAGTGGAGAACCCGCTGGA
GCTGTTACAGCGTGAAGTGGTATCCAGGACATCAACGACAACAATCCTGCTTCCCTACCCAGGAAATG
AAATTGGAGATTAGCGAGGCCGTGGCTCCGGGGACGCGCTTCCGCTCGAGAGCGCGCACGATCCCGATG
TGGGAAGCAACTTTTACAAACCTATGAGCTGAGCCGAAATGAATACTTTGCGCTTCGCGTGCAGACGCG
GGAGGACAGCACCAAGTACGCGGAGCTGGTGTGGAGCGCGCCCTGGACCAGAACGGGAGCCTAGTCTC
CAGTTAGTGCTGACGGCGTTGGACGGAGGGACCCAGCTCTCCTCCGACGCTGCCTATTCACATCAAGG
TGCTGGACGCGAATGACAATGCGCCTGTCTTCAACCAGTCCTTGTACCGGGCGCGCTCCTGGAGGATGC
ACCCTCCGGCACGCGCTGGTACAAGTCCTTGCAACGGATCTGGATGAAGGCCCAACGGTGAATATTATT
TACTCCTTCGGCAGCCACAACCGCGCCGGCGTGCGGCAACTATTCGCTTAGACCTTGAACCGGGATGC
TGACAATCAAGGGTCCGCTGGACTTCGAGGACACCAAACTCCATGAGATTTACATCCAGGCCAAAGACAA
GGGCGCAATCCCGAAGGAGCACATTGCAAAGTGTGGTGGAGGTTGGATGTGAATGACAACGCCCGG
GAGATCACAGTCACCTCCGTGTACAGCCAGTACCCGAGGATGCCCTCTGGGACTGTCACTCGCTTTC
TCAGTGTGACTGACCTGGATGCTGGCGAGAACGGGCTGGTACCTGCGAAGTTCCACCGGCTCCCTTT
CAGCCTTACTTCTCCCTCAAGAATTACTTCACTTTGAAAACCAAGTGCAGACCTGGATCGGGAGACTGTG
CCAGAATACAACCTCAGCATCACCGCCGAGACGCGGAACCCCTTCCCTCTCAGCCCTTACAATAGTGC
GTGTTCAAGTGTCCGACATCAATGACAACCTCCACAATCTTCTCAATCTTCTACGACGTTTACATTGA
AGAAAACAACCTCCCGGGGCTCCAATACTAAACCTAAGTGTCTGGACCCCGACGCCCGCAGAATGCT
CGGCTTTCTTTCTTCTTGGAGCAAGGAGCTGAAACCGGGCTAGTGGTGCCTATTTACAATAAATC
GTGACAATGGCAGTGTATCCTTAGTGCCCTAGACTATGAGGATCGGCGGGAATTTGAATTAACAGC
TCATATCAGCGATGGGGCACCCCGTCTAGCCACCAACATCAGCGTGAACATATTTGCTACTGATCGC
AATGACAATGCCCCCAGGTCCTATATCCTCGCCAGGTGGGAGCTCGGTGGAGATGCTGCCTCGAGGTA
CCTCAGCTGGCCACCTAGTGTACGGGTGGTAGGCTGGGACGCGGATGCAGGGCACAAATGCCTGGCTCTC
CTACAGTCTCTTGGGATCCCCTAACAGAGCCTTTTTGCCATAGGGCTGCACACTGGTCAATCAGTACT
GCCCGTCCAGTCCAAGACACAGATTCACCCAGGCAGACTCTCACGGTCTTGATCAAAGACAATGGGGAGC
CTTCGCTCTCCACCAGTGTACCCTCACTGTGTGAGTAAACCGAGGACTCTCCTGAAGCCCGAGCCGAGTT
CCCCTCTGGCTCTGCCCCCGGGAGCAGAAAAAAATCTCACCTTTTATCTACTTCTTTCTAATCCTG
GTTTCTGTGGGTTTGTGGTACAGTGTTCGGAGTAATCATATTCAAAGTTTACAAGTGAAGCAGTCTA
GAGACCTATACCGAGCCCGGTGAGTCACTGTACCGAACACAGGGCCCTCTTGACGCGGACGCGCT
GCGGGGAGGCCTGATGTCGCCGACCTTTACCATCAGGTGTATCTCACCGGACTCCCGCCGACGCGAC
CCGCTGCTGAAGAAACCTGGTGCAGCCAGTCCACTGGCCAGCCGACGAGAACACGCTGCGGAGCTGTGATC
CGGTGTTCTATAGGCAGGTGTTGGTGCAGAGAGCGCCCTCCCGGACAGGTAAGGTTTGAAGTCAAGT
CTTGACCTGTTAGTGTCTTTTATTCTACATCATATTGAGGAAGGAATGGAGCTGTTTTTTAGTGAT
GAAGATGTTTTCTGGTGTGATTCACACTTTCAACTGGCCCTTCTAGATCAAAGTTAGTGCCTTTG

ACCGTACGCGGCCGCTCGAG – GFP Tag – GTTAA

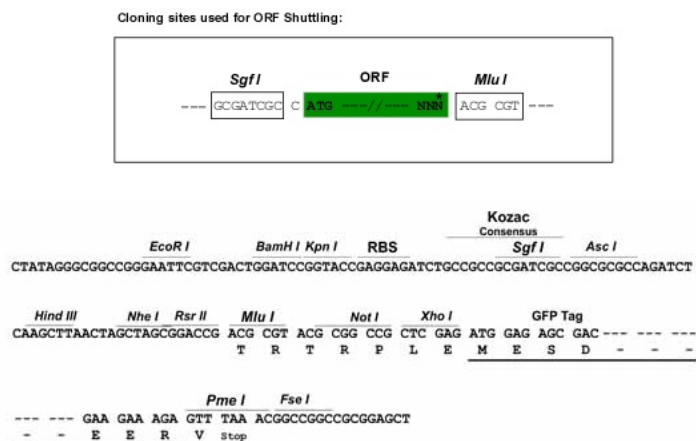
Protein Sequence: >RG211379 representing NM_032402
 Red=Cloning site Green=Tags(s)

```
MVPEAWRSGLVSTGRVVGVLALLGALNKASTVIHYEIPEEREKGFVGNVAVANLGLDLGSLSARRFRVVS
GASRRFFEVRNRETGEMFVNDRLDREELCGTLPSCVTLELVENPLELFSVEVVIQDINDNPAFPTQEM
KLEISEAVAPGTRFPLESAHDPDVGNSLQTYELSRNEYFALRVQTREDSTKYAELVLERALDREREPSL
QLVLTALDGGTPALSASLPIHIKVL DANDNAPVFNQSLYRARVLEDAPSGTRVVQVLATDLDEGPNGEII
YSFGSHNRAGVRQLFALDLVTGMLTIKGRDLDFEDTKLHEIYIQAKDKGANPEGAHCKVLEVVVDVNDNAP
EITVTSVYSPVPEDAPLGTVIALLSVTDLDAGENGLVTCEVPPGLPFLSTSSLKNYFTLKT SADLDRETV
PEYNLSITARDAGTPSLSALTIVRVQVSDINDNPPQSSQSSYDVYIEENLPGAPILNLSVWDPDAPQNA
RLSFFLLEQGAETGLVGRYFTINRDNGIVSSLVPLDYEDRREFELTAHISDGGTPVLATNISVNI FVTDR
NDNAPQVLYPRPGSSVEMLPRGTSAGHLVSRVVGWDADAGHNAWLSYLLGSPNQSLFAIGLHTGQIST
ARPVQDTSRQTLTVLIKDNGEPSLSTATLTVSVTEDSPEARAEFPGSAPREQKKNLTFYLLLSLIL
VSVGFVTVFVGVIFKVKWKQSRDLYRAPVSSLYRTPGPSLHADAVRGGLMSPHLYHQVYLT TDSRRSD
PLLKKPGAASPLASRQNTLRSCDPVFYRQVLGAESAPPGQVRFKSKSCLTLLVLFYSYIILRKEWSCFFSD
EDVFLVMHSHFQLALPRSKLVPL
```

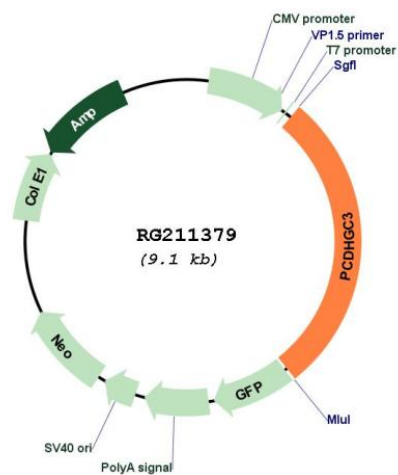
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



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
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]