

Product datasheet for **RG211316**

PCDHGC5 (NM_032407) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHGC5 (NM_032407) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PCDHGC5
Synonyms:	PCDH-GAMMA-C5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG211316 representing NM_032407
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGGGGCCCAAGACACTCCACAGCTCGCTGGAAATGGCAAGTGTGTGCATGTTGTCCTGTGTCTGCT
 GGGGCTGGGTGTCTGGGCAGCTTCGTTACTCAGTGGTGGAGGAGTCTGAGCCGGGACGCTGGTGGGGAA
 TGTTGCTCAGGATCTGGGCTTAAAGATGACAGATCTGTTGAGCCGGCGGCTGCAACTGGGCTCTGAGGAG
 AATGGGCGCTATTTTTCCCTGAGCTTGATGAGTGGTGCCTGGCAGTGAATCAAAAGATTGACCGAGAAA
 GCCTATGTGGAGCCAGCACCAGCTGCCTGCTGCCAGTGCAGGTGGTACTGAACACCCCTGGAGCTAAT
 CCGTGTAGAGGTAGAGATCCTGGATCTCAATGACAACCTCTCTAGCTTTGCCACCCTGAGCGAGAGATG
 CGCATCTCAGAATCAGCAGCATCTGGGCACGATCCCAGTGGACAGTGGCCAGGATCCGGATGTGGGCA
 CCAATACTGTGAGCTTTTACACTCTAAGCCCCAACAGCCACTTCTCTGAATGTGAAGACCCTAAAAGA
 TGGGAAGCCATTCCAGAGCTGGTGTAGAGCAGCAGCTGGATCGTGAAGCCAGGCAAGACATCAGCTG
 GTGCTTACTGCTGTGGATGGGGGACCCAGCCGCTCAGGGACCACCCTTATCTCTGTCATCGTGTCTGG
 ACATCAATGATAATGCTCCAACCTTCCAATCCTCAGTTCTACGTGTGGGAATCCCAGAGAATGCACCCAT
 TGGTACTCTGCTGCTCCGCCTCAATGCCACTGATCCAGACGAGGGCACCACGGCCAACCTAGACTATTCT
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 GCCTGCCATGGAGGGCCACTGTGTGATTAAGTGGATGTGGGGATGTCAATGACAATGCCCCAGAGGTG
 CTATTGGCCTCTTTGGCCAACCTGTCTAGAGAGCACACCAGTGGGCACAGTAGTGGGGTGTTTAATG
 TCCGAGACCGGGACTCAGGTAGAATGGTGAAGTGAAGTGGTGTGATCTCTCCGGACCTGCCATTCAGAT
 TAAGCCTTCTGAGAACCCTACTCGCTGTCTAACCCAGCCAGCCTTTGGACCGGGAGGCCACATCCCCTAT
 ATCATCGAGCTGCTGGCCAGCGATGCTGGTTCACCTTCCCTACACAAACATCTCACCATCAGGCTCAACA
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 TACTCCATTGTAGGAAATCAGGTTGAGGGAGCCCCAGCCTCCTCCTTTGTGTATGTCAACCAGAGGATG
 GACGGATCTTTGCCAGCGTACCTTTGACTATGAATTGCTGCAGATGCTGCAGATTGTGGTGGGGTTTCG
 AGACTCCGGCTCTCCCCATTGCATGCCAACACATCTCTGCATGTGTTTGTCTAGACGAGAATGATAAT
 GCCCCAGCTGTGTGCACCCACGGCCAGGCTGGGAACACTCAGCCCCCAGCGTCTCCCTCGCTCTGCTC
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 GTCAGTCTTTATCCCTAGTACCTTACCTTTCTGTGAGTAAAGTGCCTCAGGGAAACGCAGACGGGG
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 CCTCATAAGGGATTGAACCTGCATCCACTCCTCTCCGGCCGGCTTGGTGTCTGGCTGCGCTCCACCCGAT
 TCTCGGGATCATTGGACCGTTTGCAGGAAACCAGAGTGGCCGAT

ACCGGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG211316 representing NM_032407
 Red=Cloning site Green=Tags(s)

MGPKTLPQLAGKWQVLCMLSLCCWGWVSGQLRYSVVEESEPGLVGNVAQDLGLKMTDLLSRRLQLGSEE
 NGRYFSLSLMSGALAVNQKIDRESLCGASTSCLLPVQVVEHLELIRVEVEILDNDNSPSFATPEREM
 RISESAASGARFPLDSAQDPDVGTTNTVSYFYLSPNSHFLSNVKTLDGKPFPELVLEQQLDREAQARHQL
 VLTAVDGGTPARSGTTLISVIVLDINDNAPTFQSSVLRVGIENAPIGTLLRLNATDPDEGTNGQLDYS
 FGDHTSEAVRNLFGLDPSSGAIHVLGPIDFEESRFYI HARARDQGPAMEGHCVIQVDVGDVNDNAPEV
 LLASLANPVLESTPVGTVVGLFNVRDRDSGRNGEVSLDISPDLPFQIKPSENHYSLLTSQPLDREATSHY
 IIELASDAGSPSLHKHLTIRLNI SDVNDNAPRFNQQLYTAYILENRPPGSLLCTVAASDPDTGDNARLT
 YSIVGNQVQGAPASSFVYVNPEDGRIFAQRTFDYELLQMLQIVVGVDRSGSPPLHANTSLHVFVLDENDN
 APAVLHPRPGWEHSAPQRLPRSAPPGSLVTKVTAVDADAGHNAWLSYLLPQSTAPGLFLVSTHTGEVRT
 ARALLEDDSDTQQVVVLVRDNGDPSLSSTATVLLVLEDEDPEEMPKSSDFLIHPPERSDLTYLIVALAT
 VSLLSLVTFTFLSAKCLQGNADGGGGGCCRRQDSPSPDFYKQSSPNLQVSSDGLKYMEVTLRPDTSQ
 SHCYRTCFSPASDGSDFTLRPLSVQOPTALALEPDAIRSRNTLRERSQVRGSAPPRATPGGGTGEAAR
 PHKGLNLHPLLSGRLGRWLRSTRFSGSLDRLRGTRVAD

TRTRPLE - GFP Tag - V

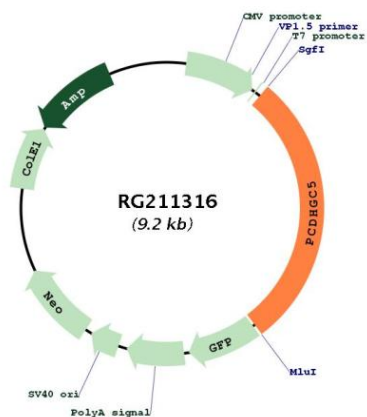
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_032407
ORF Size:	2634 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_032407.1 , NP_115783.1
RefSeq Size:	2637 bp
RefSeq ORF:	2637 bp
Locus ID:	56097
UniProt ID:	Q9Y5F6
Cytogenetics:	5q31.3
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]

Product images:



Circular map for RG211316