

Product datasheet for **RC216346**

PCDHGC5 (NM_018929) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHGC5 (NM_018929) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PCDHGC5
Synonyms:	PCDH-GAMMA-C5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC216346 representing NM_018929
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCCCAAGACACTCCACAGCTCGCTGGAAATGGCAAGTGTGTGCATGTTGTCCTGTGTCTGCT
 GGGGCTGGGTGTCTGGGCAGCTTCGTTACTCAGTGGTGGAGGAGTCTGAGCCGGGACGCTGGTGGGGAA
 TGTTGCTCAGGATCTGGGCTTAAAGATGACAGATCTGTTGAGCCGGCGGCTGCAATTGGGCTCTGAGGAG
 AATGGGCGCTATTTTTCCCTGAGCTTGATGAGTGGTGCCTGGCAGTGAATCAAAAGATTGACCGAGAAA
 GCCTATGTGGAGCCAGCACCAGCTGCCTGCTGCCAGTGCAGGTGGTACTGAACACCCCTGGAGCTAAT
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 CGCATCTCAGAATCAGCAGCATCTGGGCACGATTCCTACTGGACAGTGGCCAGGATCCGGATGTGGGCA
 CCAATACTGTGAGCTTTTACACTCTAAGCCCCAACAGCCACTTCTCTGATGTGAAGACCCTAAAAGA
 TGGGAAGCCATTCCAGAGCTGGTGTAGAGCAGCAGCTGGATCGTGAAGCCAGGCAAGACATCAGCTG
 GTGCTTACTGCTGTGGATGGGGGACCCAGCCGCTCAGGGACCACCCTTATCTCTGTCATCGTGTCTGG
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 TAAGCCTTCTGAGAACCCTACTCGCTGCTAACCCAGCCAGCCTTTGGACCGGGAGGCCACATCCCCTAT
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 GACGGATCTTTGCCAGCGTACCTTTGACTATGAATTGCTGCAGATGCTGCAGATTGTGGTGGGGTTTCG
 AGACTCCGGCTCTCCCCATTGCATGCCAACACATCTCTGCATGTGTTTGTCTAGACGAGAATGATAAT
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 GGCAGCAATGCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCA
 ACAAGAAGAAGTCGGGCAAGAAGGAGAAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC216346 representing NM_018929
 Red=Cloning site Green=Tags(s)

MGPKTLPQLAGKWQVLCMLSLCCWGWVSGQLRYSVVEESEPGLVGNVAQDLGLKMTDLLSRRLQLGSEE
 NGRYFSLSLMSGALAVNQKIDRESL CGASTSCLLPVQVVEHLELIRVEVEILDNDNSPSFATPEREM
 RISEASAASGARFPLDSAQDPDVGTTNTVSYFYLSPNSHFLSNVKTLDKGPPELVLEQQLDREAQARHQL
 VLTAVDGGTTPARSGTTLISVIVLDINDNAPTFQSSVLRVGI PENAPIGTL LLLRLNATDPDEGTNGQLDYS
 FGDHTSEAVRNLFGLDPSSGAIHVLGPIDFEESRFYEIHARARDQGPAMEGHCVIQVDVGDVNDNAPEV
 LLASLANPVLESTPVGTVVGLFNVRDRDSGRNGEVSLDISPDLPFQIKPSENHYSLLTSQPLDREATSHY
 IIELLASDAGSPSLHKHLTIRLNI SDVNDNAPRFNQQLYTAYILENRPPGSLLCTVAASDPDTGDNARLT
 YSIVGNQVQGAPASSFVYVNPEDGRIFAQRTFDYELLQMLQIVVGVVDSGSPPLHANTSLHVFVLDENDN
 APAVLHPRPDWEHSAPQRLPRSAPPGSLVTKVTAVDADAGHNAWLSYLLPQSTAPGLFLVSTHTGEVRT
 ARALLEDDSDTQQVVVLVRDNGDPSLSSTATVLLVLEDEDPEEMPSSDFLIHPPERSDLTYLIVALAT
 VSLLSLVTFTFLSAKCLQGNADGGGGGCCRRQDSPSPDFYKQSSPNLQVSSDGLKYMEVTLRPTDSQ
 SHCYRTCFSPASDGSDFTLRPLSVQPTALALEPDAIRSRNTLRERSQQAPPNTDWRFSQAQRPGTSG
 SQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVDPYRQNVYIP
 GSNATLTNAAGKRDGKAPAGGNGNKKKSGKKEKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

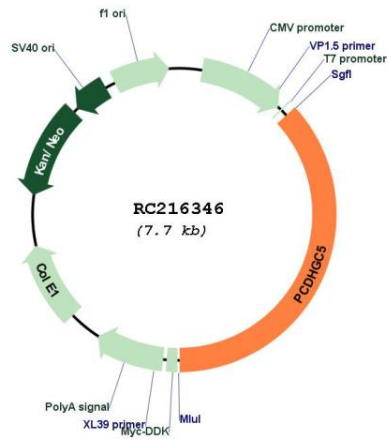


ACCN: NM_018929

ORF Size: 2832 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_018929.3
RefSeq Size:	4641 bp
RefSeq ORF:	2835 bp
Locus ID:	56097
UniProt ID:	Q9Y5F6
Cytogenetics:	5q31.3
Domains:	CA
Protein Families:	Transmembrane
MW:	98.7 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 RC216346