

Product datasheet for **RG213220**

PCDHGA6 (NM_032086) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHGA6 (NM_032086) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PCDHGA6
Synonyms:	PCDH-GAMMA-A6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG213220 representing NM_032086
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCCTCCGAGAGGCATCCGAGCGCAGCGAGCAGGTCCTGCTCCTCACGCTCCTGGGGACGCTGT
 GGGGGGCCGCGCAGCGCAGATCCGCTACTCTATTCCCGAGGAGCTGGAGAAAGGCTCCTTCGTAGGCAA
 CATCGTCAAGGATCTGGGACTGGAGCCCCAGGAGTTGGCGGAGCACGGAGTCCGCATCGTCTCCAGAGGT
 AGGATGCAGCTTTTCTCTCTGAATCCGCGAAACGGCAGCTTGGTCACCGCGGGTAGGATAGACCGCAGAG
 AGCTCTGTGCTCAGAGCCCGGGTGTCTGGTGAGTTTTAACATCCTTGTGAGGATAAACTGAATCTTTA
 TCCCGTGGAAAGTGGAAATAGTGGACATTAATGACAATACACCCCGATTCTTAAAGGAAGAATTGGAAGTG
 AAAATTCTCGAAACGCAGCTCCATCCTCTCGTTTTCCACTAATGGAGGTCTATGACCCTGATGTGGGAA
 TGAATCCCTTCAGGGATTTAAGCTCAGTGGTAATAGTCACTTCTCAGTGGACGTGCAAAGCGAAGCCCA
 TGGGCCCAAGTACCCGGAGCTGGTGTGGAGGGCACACTGGACCGGGAAGGAGAAGCCGTTTACCGCTG
 GTCCTTACTGCCATGGATGGCGGCGACCTGTCCGCTCAAGCGTCGCCCAAATTCGTGTAACAGTTCTAG
 ATGTGAATGACAACACTCCAATGTTTACTCAGCCTGTCTACCGTGTAAAGTGTTCGAAAACCTGCCAGT
 AGGCACACCAGTGTGGCAGTACTGCCACCGACCAGGATGAAGGAGTCCACGGGGAAGTAACTTATTCC
 TTTGTGAAGATTACAGAAAAGATCTCACAAATTTTCTGTTTGAATGTTTGTGAGTGGAGAAATTTCAACTT
 CTGCAATCTAGACTATGAGGACTCGAGTTTTATGAGCTGGGTGTTGAAGCCCGGGATGGGCCAGGTCT
 TCGAGACAGAGCGAAAGTCTTAATAACTATCTTGGATGTCAATGATAATGTACCAGAAGTGGTTGTTACA
 TCTGGAAGCAGAACAATTGCTGAAAGTGACCTCCAGGAACAGTAATCGCCCTTTTTCAAGTGTTCGATC
 GAGACTCTGGCCTGAATGGCCTGGTAACCTGTTCCATCCCGAGAAGTCTCCCATTTGAATTGGAAAAATC
 AGTTGGCAATTATTATCGATTAGTGACAAATGCAGCTCTAGACCGGGAAGAGGTATTCTTGTACAACATC
 ACTGTGACAGCCACGGACAAAGGAACACCACTGTCTACAGAAACAATCATCTCTCTAAATGTGGCAG
 ACACCAACGACAACCCGCCACCTTCCCCATTCTACTCAGTCTATGTCTTGAACAACCCAG
 GGGTGCTCCATCTTCTGTGAATGACTGGACCCTGACGTGGACCAGAACGCCAAGTCTCTACTCA
 CTGGCAGAAGACACCTCCAGGGGGCGCCCTGTCTCTACGTGTCCATCAACTCCGACACTGGGATTCT
 TGTACGCCCTGCGCTCCTTCGACTATGAGCAGTTGAGAGACCTACAGCTGTGGGTGACAGCCAGCGACAG
 CGGGGACCCGCTCTTAGCAGCAACGTGTCACTGAGCCTGTTTGTGCTGGACCAGAATGACAATGCGCCC
 GAGATCCTGTACCCCGCCCTCCACAGACGGTCCACTGGCGTGGAGCTGGCGCCCGCTCCGCAGAGC
 CCGGCTACCTGGTGACCAAGGTGGTGGCGGTGGACAGAGACTCGGGCCAGAACGCCTGGCTGTCTACCG
 CCTGCTCAAGGCCAGCGAGCCAGGACTTTTCTCAGTGGGCCTGCACACGGGCGAGGTGCGCACGGCGCGC
 GCCCTGTGGACAGAGACGCGCTCAAGCAGAGCCTAGTGGTGGCCGTCCAGGACCACGGCCAGCCCCCTC
 TCTCCGCCACTGTACGCTCACCGTGGCGGTGGCCGACAGGATCCCCGACATCCTGGCCGACCTGGGCAG
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 TGCTGCAGGCTTCGGGAGGTGGCTTAGCGAGCATGCCCGGCTCGCACTTTGTGGGCGTGAAGGGGTTTCG
 GGCTTTCTGCAGACCTATCCACGAGGTCTCACTCACTGCAGACTCGCGTAAGAGTCATCTGATTTTC
 CCCCAGCCCAACTATGCCGACACGCTTATCAACCAGGAGAGCTATGAGAAAAGCGAGCCTCTTCTGATAA
 CTCAGGATTTACTTGAACGAAAGGAGAACCCAGGCAACTTCAGGTGAGTTTCTTCCGCCTAAGCGGGA
 AGAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG213220 representing NM_032086
 Red=Cloning site Green=Tags(s)

MAPPQRHPQRSEQVLLLTLGLTWGAAAAQIRYSIPPEELEKGSFVGNIVKDLGLEPQELAEHGVRIVSRG
 RMQLFSLNPRNGSLVTAGRIDREELCAQSPRCLVSFNILVEDKLNLYPVEVEIVDINDNTPRFLKEELEV
 KILENAAPSSRFPLMEVYDPDVGMSLQGFKLSGNSHFSVDVQSEAHGPKYPELVLEGLDREGEAVYRL
 VLTAMDGGDPVRSSVAQILVTVLDVNDNTPMFTQPVYRVSVPENLPVGTPVLAVTATDQDEGVHGEVTYS
 FVKITEKISQIFCLNVLTGEISTSANLDYEDSSFYELGVEARDGPGLRDRAKVLITILDVNDNVPEVVVT
 SGSRTIAESAPPGTVIALFQVFDSDGLNGLVTCIPRSLPFELEKSVGNYYRLVTNAALDREEVFLYNI
 TVTATDKGTPPLSTETIISLNVADTNDNPPTFPHSSYSVYVLENNPRGASIFSVNALDPDQNAQVSYS
 LAEDTLQGAPLSSYVSINSDTGILYALRSFDYEQRLDLQLWVTASDSGDPPLSSNVSLSLFVLDQNDNAP
 EILYPALPTDGGSTGVELAPRSAEPGYLVTKVAVDRDSGQNAWLSYRLLKASEPGLFSVGLHTGEVRTAR
 ALLDRDALKQSLVAVQDHGQPPLSATVTLTVAVADRIDILADLGSLEPSAKPNDSDLTLYLVVAVAAV
 SCVFLAFVIVLLALRLQRWHKSRLLQASGGGLASMPGSHFVGVEGVRAFLQTSHEVSLTADSRKSHLIF
 PQPNYADTLINQESYEKSEPLLITQDLLETKEPRQLQVSFFPPKREE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

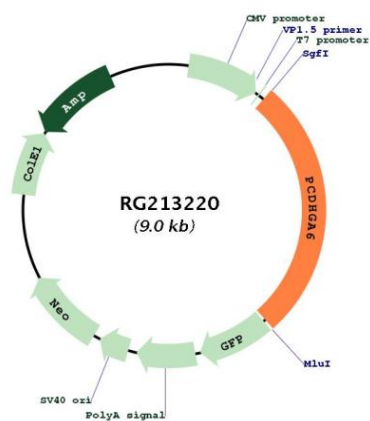
Cloning Scheme:



ACCN:	NM_032086
ORF Size:	2454 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:	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_032086.1, NP_114475.1</u>
RefSeq Size:	2457 bp
RefSeq ORF:	2457 bp
Locus ID:	56109
UniProt ID:	<u>Q9Y5G7</u>
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 RG213220