

## Product datasheet for TP310863M

### PCDHGA2 (NM\_032009) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human protocadherin gamma subfamily A, 2 (PCDHGA2), transcript variant 2, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC210863 protein sequence Red=Cloning site Green=Tags(s)

MAALQKLPHCRKLVLLCFLLATLWEARAGQIRYSVREEIDRGSFVGNIAKDLGLEPLALAEQGVRIIVSRG  
RSQLFALNPRSGSLVTANRIDREELCAQSAPCLLNFNILLEDKLIYSVEVEITDINDNAPRFGVEEEL  
KISSETTPGFRIPLKNAHDADVGENALQKYALNPNDHFSLDVRRGADGNKYPELVRLERSLDREEEAVHHL  
VLVASDGGDPVLSGTSRICVKVLDANDNAPVFTQPEYRISIPENTLVGTRILTVTATDADEGYAQQVYF  
LEKSPGETSEVFELKSTSGELTIKDLDYEDATFHEIDIEAQDGPGLLTRAKVIVTVLDVNDNAPEFYMT  
SATSSVSEDSLPGTIIGLFNVHDDRSGQNAFTTCSLPEDLPFKLEKSVDNYRLVTRALDREQFSFYNI  
TLTAKDGGNPSLSTDAHILLQVADINDNAPAFSRTSYSTYIPENNPRGASVFSVTAHPDSDNDAHVTYS  
FAEDTVQGAPLSSYSISINSDTGVLALRSFDYEQLRDLQVWVIARDSGNPPLSSNVSLFVLDQNDNAP  
EILYPAFPTDGGSTGVELAPRSAEPGYLVTKVAVDRDQSGQNAWLSYHLLKASEPGLFVGLHTGEVTRAR  
ALLDRDALKQSLVVAIQDHGQPPLSATVTLTVAVADRIPDILADLGSLEPSAIPNDSDLTYLVVAVAAV  
SCVFLAFVIVLLAHLRRLRWKSRLLQASGGSLTGMQSSHVGVGVDGVRFLQTSHEVSLTADSRKSHLIF  
PQPNYADTLISQESCEKKDFLSAPQSLLEEREETFSQVIYLFTTYVLASLLK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	87 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_114398](#)

**Locus ID:** 56113

**UniProt ID:** [Q9Y5H1](#)

**RefSeq Size:** 2735

**Cytogenetics:** 5q31.3

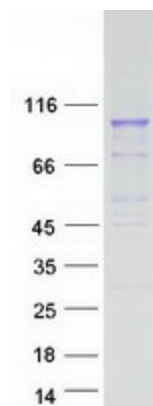
**RefSeq ORF:** 2469

**Synonyms:** PCDH-GAMMA-A2

**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]

**Protein Families:** Transmembrane

### Product images:



Coomassie blue staining of purified PCDHGA2 protein (Cat# [TP310863]). The protein was produced from HEK293T cells transfected with PCDHGA2 cDNA clone (Cat# [RC210863]) using MegaTran 2.0 (Cat# [TT210002]).