

## Product datasheet for **TP319857M**

### PCDHGA12 (NM\_003735) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human protocadherin gamma subfamily A, 12 (PCDHGA12), transcript variant 1, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC219857 representing NM_003735 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MIPARLHRDYKGLVLLGILLGTLWETGCTQIRYSVP EELEKGSRVGDISRDLGLEPRELAERGVRIIPRG  
RTQLFALNPRSGSLVTAGRIDREELCMGAIKCQLNLDILMEDKVKIYGVEVEVRDINDNAPYFRESELEI  
KISENAATEMRFP LPHAWDPDIGKNSLQSYELSPNTHFSLIVQNGADGSKYPELV LKRALDREEKAAHHL  
VLTASDGGDPVRTGTARIRVMVLDANDNAPAF AQPEYRASVPENLALGTQLLVNATDPDEGVNAEVRYS  
FRYVDDKAAQVFKLDCNSGTISTIGELDHEESGFYQMEVQAMDNAGYSARAKVLITVLDVNDNAPEVLT  
SLASSVPENSPRGTLIALLNVDQDSEENGQVICFIQGNL PFKLEKSYGNYSLVTDIVLDREQVPSYNI  
TVTATDRGTPPLSTETHISLNVADTNDNPPVFPQASYSAYIPENNPRGVSLSVTAHDPDCEENAQITYS  
LAENTIQQASLSSYVSINSDTGVLYALSSFDYEQRDLQVKVMARDNGHPPLSSNVSLSLFVLQDQNDNAP  
EILYPALPTDGSTGVELAPRSAEPGYLVTKVAVDRDSGQNAWLSYRLLKASEPGLFSVGLHTGEVRTAR  
ALLDRDALKQSLVAVQDHGQPPLSATVTLTVAVADSIPQVLADLGSLESPANSETSDLTYLVVAVAAV  
SCVFLAFVILLALRLRRWHKSRL LQASGGGLTGAPASHFVGV DGVQAFQTYSHEVSLTTDSRKSHLIF  
PQP NYADMLVSQESFEKSEPLLLSGDSVFSKDSHGLIEQAPPNTDWRFSQAQRPGTSGSQNGDDTGTWPN  
NQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIPGSNATLTNAAGK  
RDGKAPAGGNGNKKKSGKKEKK

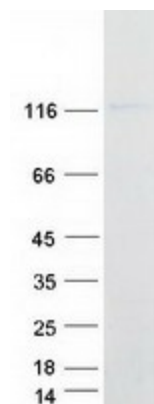
**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	97.7 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



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<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_003726</a>
<b>Locus ID:</b>	26025
<b>UniProt ID:</b>	<a href="#">O60330</a>
<b>RefSeq Size:</b>	4774
<b>Cytogenetics:</b>	5q31.3
<b>RefSeq ORF:</b>	2796
<b>Synonyms:</b>	CDH21; FIB3; PCDH-GAMMA-A12
<b>Summary:</b>	<p>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]</p>
<b>Protein Families:</b>	Transmembrane

**Product images:**

Coomassie blue staining of purified PCDHGA12 protein (Cat# [TP319857]). The protein was produced from HEK293T cells transfected with PCDHGA12 cDNA clone (Cat# [RC219857]) using MegaTran 2.0 (Cat# [TT210002]).