

## Product datasheet for PH319857

### PCDHGA12 (NM\_003735) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	PCDHGA12 MS Standard C13 and N15-labeled recombinant protein (NP_003726)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC219857
Predicted MW:	100.96 kDa
Protein Sequence:	>RC219857 representing NM_003735 Red=Cloning site Green=Tags(s)

MIPARLHRDYKGLVLLGILLGTLWETGCTQIRYSVPEELEKGSRVGDISRDLGLEPRELAERGVRIIPRG  
RTQLFALNPRSGSLVTAGRIDREELCMGAIKCQLNLDILMEDKVKIYGVEVEVRDINDNAPYFRESELEI  
KISENAATEMRFPPLPHAWDPDIGKNSLQSYELSPNTHFSLIVQNGADGSKYPELVLRALDREEKAAHHL  
VLTASDGGDPVRTGTARIRVMVLDANDNAPAFAPQPEYRASVPENLALGTQLLVNATDPDEGVNAEVRY  
FRYVDDKAAQVFKLDCNSGTISTIGELDHEESGFYQMEVQAMDNAGYSARAKVLITVLDVNDNAPEVLT  
SLASSVPENSPRGTLIALLNVDQDSEENGQVICFIQGNLQKLEKSYGNYSYSLVTDIVLDREQVPSYNI  
TVTATDRGTPPLSTETHISLNVADTNDNPPVFPQASYSAYIPENNPRGVSLVSVTAHDPDCEENAQITYS  
LAENTIQGASLSSYVSINSDTGVLVALSSFYDIEQFRDLQVKVMARDNGHPPLSSNVSLSLFVLDQNDNAP  
EILYPALPTDGGSTGVELAPRSAEPGYLVTKVAVDRDSGQNAWLSYRLLKASEPGLFSVGLHTGEVTRAR  
ALLDRDALKQSLVAVQDHGQPPLSATVTLTVAVADSIPQVLADLGSLESPANSETSDLTLYLVVAVAAV  
SCVFLAFVILLALLRRLRWHKSRLLQASGGGLTGAPASHFVGVQVQAFQFLQTSHEVSLTTSRKSHLIF  
PQPNYADMLVSQESFEKSEPLLLSGDSVFSKDSHGLIEQAPPNTDWRFSQAQRPGTSGSQNGDDTGTWPN  
NQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVDPYRQNVYIPGSNATLTNAAGK  
RDGKAPAGGNGNKKKSGKKEK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.



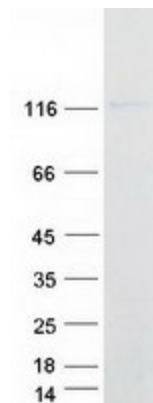
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RefSeq:	<a href="#">NP_003726</a>
RefSeq Size:	4774
RefSeq ORF:	2796
Synonyms:	CDH21; FIB3; PCDH-GAMMA-A12
Locus ID:	26025
UniProt ID:	<a href="#">O60330</a>
Cytogenetics:	5q31.3

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