

## Product datasheet for PH311327

### PCDHA4 (NM\_031500) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	PCDHA4 MS Standard C13 and N15-labeled recombinant protein (NP_113688)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC211327
Predicted MW:	86.2 kDa
Protein Sequence:	>RC211327 protein sequence Red=Cloning site Green=Tags(s)

MEFSWGSQGSRLLLLLLLLLAWEAGNQLHYSVSEEAKHGTFVGRIAQDLGLELAELVPRLFRVASKG  
RGGLLEVNLQNGILFVNSRIDREELCRRSAECSIHLEVI VDRPLQVFHV DVEVRDINDNPPVFPATQKNL  
SIAESRPLDSRFPLEGASDADIGENALLTYRLSPNEYFSLEKPPDDELVKGLGLILRKSLDREEAPEIFL  
VLTATDGGKPELTGTVQLLITVLDANDNAPAFDRTIYKVRLEENVPNGTLVIKLNASDLDEGLNGDIVYS  
FSNDISPNVKSFKHIDPITGQIIVKGYIDFEESKSYEII VEGIDKGQLPLSGHCRVIVEVEDNNDNVPDL  
EFKSLSLPIREDAPLGTVIALISVSDKDMGVNGLVTCSLTSHVPPFKLVSTFKNYSLVLDSALDRESVSA  
YELVVTARDGGSPSLWATASVSVEVADVNDNAPAFAPQPEYTVFVKENPPGCHIFTVSAWDADAQENALV  
SYSLVERRVGERALSSYVSVHAESGKVYALQPLDHEEELLLQFQVTARDAGVPPLGSNVTLQVFLVDEND  
NAPALLAPRAGGTGGAVSELVPWSVGVGHVAKVRAVDADSGYNLAWLSYELQPGTGGARIPFRVGLYTGE  
ISTTRALDETAPRHRLLVLVKDHGEPALTATATVLSLVESGQAPKASSRALVGAVGPDAALVDVNVYL  
IIAICAVSSLLVLTLLLYTALRCSALPTEGACAPGKPTLVCCSAVGSWSYSQRRRPRVCSGEGPPKTDLM  
AFSPSLPDSRDREDQLQTTEESFAKVSV

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

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.
RefSeq:	<a href="#">NP_113688</a>



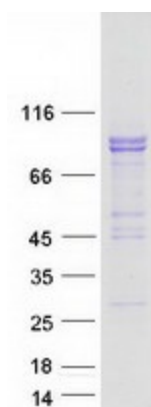
[View online »](#)

RefSeq Size:	2594
RefSeq ORF:	2394
Synonyms:	CNR1; CNRN1; CRNR1; PCDH-ALPHA4
Locus ID:	56144
UniProt ID:	<a href="#">Q9UN74</a> , <a href="#">Q59H34</a>
Cytogenetics:	5q31.3

**Summary:** This gene is a member of the protocadherin alpha gene cluster, one of three related gene clusters tandemly linked on chromosome five that demonstrate an unusual genomic organization similar to that of B-cell and T-cell receptor gene clusters. The alpha gene cluster is composed of 15 cadherin superfamily genes related to the mouse CNR genes and consists of 13 highly similar and 2 more distantly related coding sequences. The tandem array of 15 N-terminal exons, or variable exons, are followed by downstream C-terminal exons, or constant exons, which are shared by all genes in the cluster. The large, uninterrupted N-terminal exons each encode six cadherin ectodomains while the C-terminal exons encode the cytoplasmic domain. These neural cadherin-like cell adhesion proteins are integral plasma membrane proteins that most likely play a critical role in the establishment and function of specific cell-cell connections in the brain. Alternative splicing has been observed and additional variants have been suggested but their full-length nature has yet to be determined. [provided by RefSeq, Jul 2008]

**Protein Families:** Transmembrane

### Product images:



Coomassie blue staining of purified PCDHA4 protein (Cat# [TP311327]). The protein was produced from HEK293T cells transfected with PCDHA4 cDNA clone (Cat# [RC211327]) using MegaTran 2.0 (Cat# [TT210002]).