

## Product datasheet for PH308731

### CTNNA2 (NM\_004389) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	CTNNA2 MS Standard C13 and N15-labeled recombinant protein (NP_004380)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC208731
Predicted MW:	100.4 kDa
Protein Sequence:	>RC208731 protein sequence Red=Cloning site Green=Tags(s)

MTSATSPIILKWPKSLEIRTLTVERLLEPLVTQVTTLVNTSNKGPSGKKKGRSKKAHVLAASVEQATQN  
FLEKGEQIAKESQDLKEELVAAVEDVRKQGETMRIASSEFADDPCCSSVKRGTMVRAARALLSAVTRLLIL  
ADMADVMRLLSHLKIVEEALAVKNATNEQDLANRFKEFGKEMVKNYVAARRQELKDPHCRDEMAAAR  
GALKKNATMLYTASQAFLRHPDVAATRANRDYVFKVQEAIAAGISNAAQATSPTDEAKGHTGIGELAAAL  
NEFDNKIILDPMTFSEARFRPSLEERLESIISGAALMADSSCTRDRRERIVAECNAVRQALQDLLSEYM  
NNTGRKEKGDPLNIAIDKMTKKTRDLRRQLRKAVMDHISDSFLETNVPLLVLEAAKSGNEKEVKEYAQV  
FREHANKLVEVANLACSI SNNEEGVKLVRMAATQIDSLCPQVINAALTLAARPQSKVAQDNMDVFKDQWE  
KQVRVLTEAVDDITSVDDFLSVSENHILEDVNCVIALQEGDVTDLRTAGAIRGRAARVIHIINAEMEN  
YEAGVYTEKVLKLLSETVMRFAEQVEVAIEALSANVPQPFEENEFDASRLVYDGVDRIRKAVLMI  
RTPEELEDSDFEQEDYDVRSTSVQTEDDQLIAGQSARAIMAQLPQEEKAKIAEQVEIFHQEKSKLDAE  
VAKWDDSGNDIIVLAKQCMIMMEMTDFTRGKGPLKNTSDVINAAKKIAEAGSRMDKLARAVADQCPDSA  
CKQDLLAYLQRIALYCHQLNICKVKAQVQNLGGELIVSGLDSATSLIQAANKLMMNAVLLTVKASYVAST  
KYQKVYGTAAVNSPVVSWKMAPEKKPLVKREKPEEFQTRVRRGSQKKHISPVQALSEFKAMDSF

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: [NP\\_004380](#)

RefSeq Size: 4005

RefSeq ORF: 2715

Synonyms: CAP-R; CAPR; CDCBM9; CT114; CTNR

Locus ID: 1496

UniProt ID: [P26232](#), [Q49AD3](#)

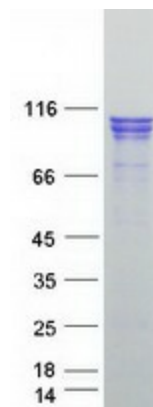
Cytogenetics: 2p12

**Summary:** May function as a linker between cadherin adhesion receptors and the cytoskeleton to regulate cell-cell adhesion and differentiation in the nervous system (By similarity). Required for proper regulation of cortical neuronal migration and neurite growth (PubMed:30013181). It acts as negative regulator of Arp2/3 complex activity and Arp2/3-mediated actin polymerization (PubMed:30013181). It thereby suppresses excessive actin branching which would impair neurite growth and stability (PubMed:30013181). Regulates morphological plasticity of synapses and cerebellar and hippocampal lamination during development. Functions in the control of startle modulation (By similarity).[UniProtKB/Swiss-Prot Function]

**Protein Families:** Druggable Genome

**Protein Pathways:** Adherens junction, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Endometrial cancer, Leukocyte transendothelial migration, Pathways in cancer, Tight junction

### Product images:



Coomassie blue staining of purified CTNNA2 protein (Cat# [TP308731]). The protein was produced from HEK293T cells transfected with CTNNA2 cDNA clone (Cat# [RC208731]) using MegaTran 2.0 (Cat# [TT210002]).