

## Product datasheet for **TP312056M**

### beta Catenin (CTNNB1) (NM\_001098209) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human catenin (cadherin-associated protein), beta 1, 88kDa (CTNNB1), 100 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA** >RC212056 representing NM\_001098209

**Clone or AA** **Red**=Cloning site **Green**=Tags(s)

**Sequence:**

MATQADLMELDMAMEPDRKAAVSHWQQQSYLDSGIHSGATTTAPSLSGKGNPEEEDVDTSQVLYEWEQGF  
SQSFTQEQVADIDGQYAMTRAQRVRAAMFPETLDEGMQIPSTQFDAAHPTNVQRLAEPSQMLKHAVVNL  
NYQDDAELATRAIPELTKLLNDEDQVVNKAAMVHQLSKKEASRHAIMRSPQMVSIAIVRTMQNTNDVET  
ARCTAGTLHNLSSHREGLLAIFKSGGIPALVKMLGSPVDSVLFYAITLHNLHLLHQEGAKMAVRLAGGLQ  
KMVALLNKTNVKFLAITDCLQILAYGNQESKLILASGGPQALVNIMRTYTYEKLLWTTSRVLKVLVSV  
SSNKPAIVEAGGMQALGLHLTDPSQRLVQNLWTLRNLSDAATKQEGMEGLLGLTLVQLLGSDDINVTCA  
AGILSNLTCNNYKNKMMVCQVGGIEALVRTVLRAGDREDITEPAICALRHLSRHQEAEMAQNAVRLHYG  
LPVVVKLLHPPSHWPLIKATVGLIRNLALCPANHAPLREQGAIPRLVQLLVRAHQDTQRRTSMGGTQQQF  
VEGVRMEEIVEGCTGALHILARDVHNRIVIRGLNTIPLFVQLLYSPIENIQRVAAGVLCELAQDKAAEA  
IEAEGATAPLTELHNRNEGVATYAAAVLFRMSDKPQDYKKRLSVELTSSLFRTEPMAWNETADLGLDI  
GAQGEPLGYRQDDPSYRSFHSGGYGQDALGMDPMMHEHEMGGHHPGADYPVDGLPLDGLGHAQDLMDGLPPGD  
SNQLAWFDTDL

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

**Predicted MW:** 85.3 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

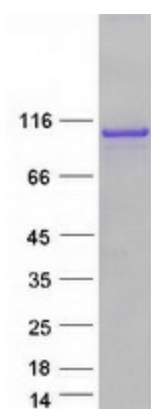
**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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<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_001091679</a>
<b>Locus ID:</b>	1499
<b>UniProt ID:</b>	<a href="#">P35222</a> , <a href="#">A0A024R2Q3</a>
<b>RefSeq Size:</b>	3415
<b>Cytogenetics:</b>	3p22.1
<b>RefSeq ORF:</b>	2343
<b>Synonyms:</b>	armadillo; CTNNB; EVR7; MRD19; NEDSDV
<b>Summary:</b>	The protein encoded by this gene is part of a complex of proteins that constitute adherens junctions (AJs). AJs are necessary for the creation and maintenance of epithelial cell layers by regulating cell growth and adhesion between cells. The encoded protein also anchors the actin cytoskeleton and may be responsible for transmitting the contact inhibition signal that causes cells to stop dividing once the epithelial sheet is complete. Finally, this protein binds to the product of the APC gene, which is mutated in adenomatous polyposis of the colon. Mutations in this gene are a cause of colorectal cancer (CRC), pilomatrixoma (PTR), medulloblastoma (MDB), and ovarian cancer. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2016]
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors
<b>Protein Pathways:</b>	Adherens junction, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Basal cell carcinoma, Colorectal cancer, Endometrial cancer, Focal adhesion, Leukocyte transendothelial migration, Melanogenesis, Pathogenic Escherichia coli infection, Pathways in cancer, Prostate cancer, Thyroid cancer, Tight junction, Wnt signaling pathway

### Product images:



Coomassie blue staining of purified CTNNB1 protein (Cat# [TP312056]). The protein was produced from HEK293T cells transfected with CTNNB1 cDNA clone (Cat# [RC212056]) using MegaTran 2.0 (Cat# [TT210002]).