

## Product datasheet for TP301766M

### alpha 1 Catenin (CTNNA1) (NM\_001903) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human catenin (cadherin-associated protein), alpha 1, 102kDa (CTNNA1), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC201766 protein sequence Red=Cloning site Green=Tags(s)

MTAVHAGNINFKWDPKSLEIRTLAVERLLEPLVTQVTTLVNTNSKGPSNKKRGRSKKAHVLAASVEQATE  
NFLEKGDKIAKESQFLKEELVAAVEDVRKQGDLMKAAAGEFADDPCCSSVKRGNMVRARALLSAVTRLLI  
LADMADVYKLLVQLKVVEDGILKLRNAGNEQDLGIQYKALKPEVDKLNIMAARQQELKDVGHDRDQMAAA  
RGILQKNVPILYASQAQLQHPDVAAYKANRDLIYKQLQQAQVGTGISNAAQATASDDASQHQGGGGGELAY  
ALNNFDKQIIVDPLSFSEERFRPSLEERLESIIISGAALMADSSCTRDDRERIVAECNAVRQALQDLLSE  
YMGNAGRKERSDALNSAIDKMTKKTRDLRRQLRKAVMDHVSDSFLETNVPLLVLIEAAKNGNEKEVKEYA  
QVREHANKLIEVANLACISISNNEEGVKLVRMSASQLEALCPQVINAALALAAKPSKLAQENMDLFEQ  
WEKQVRVLTDAVDDITSIDDFLAVSENHILEDVNKCVIALQEKDVDGLDRTAGAIRGRAARVIHVVTSEM  
DNYEPGVYTEKVLKLLSNTVMPRFTEQVEAAVEALSSDPAQPMDEFIDASRLVYDGIIRDIRKAVL  
MIRTPPELDDSDFETEDFDVRSRTSVQTEDDQLIAGQSARAIMAQLPQEQKAKIAEQVASFQEEKSKLDA  
EVSKWDDSGNDIIVLAKQMCMIMMEMTDFTRGKGPLKNTSDVISAAKKIAEAGSRMDKLGRTIADHCPDS  
ACKQDLLAYLQRIALYCHQLNICKSVKAEVQNLGGELVSGVDSAMSLIQAAKNLMNAVQTVKASYVAS  
TKYQKSQGMASLNLPAVSWKMKAPEKKPLVKREKQDETQTKIKRASQKKHVNPVQALSEFKAMDSI

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

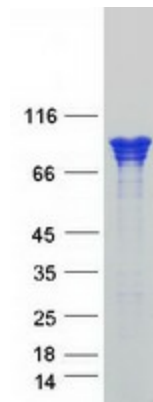
Tag:	C-Myc/DDK
Predicted MW:	99.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity 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_001894</a>
<b>Locus ID:</b>	1495
<b>UniProt ID:</b>	<a href="#">P35221</a> , <a href="#">A0A384MDY0</a>
<b>RefSeq Size:</b>	3791
<b>Cytogenetics:</b>	5q31.2
<b>RefSeq ORF:</b>	2718
<b>Synonyms:</b>	CAP102; MDPT2
<b>Summary:</b>	This gene encodes a member of the catenin family of proteins that play an important role in cell adhesion process by connecting cadherins located on the plasma membrane to the actin filaments inside the cell. The encoded mechanosensing protein contains three vinculin homology domains and undergoes conformational changes in response to cytoskeletal tension, resulting in the reconfiguration of cadherin-actin filament connections. Certain mutations in this gene cause butterfly-shaped pigment dystrophy. [provided by RefSeq, May 2016]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Adherens junction, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Endometrial cancer, Leukocyte transendothelial migration, Pathways in cancer, Tight junction

### Product images:



Coomassie blue staining of purified CTNNA1 protein (Cat# [TP301766]). The protein was produced from HEK293T cells transfected with CTNNA1 cDNA clone (Cat# [RC201766]) using MegaTran 2.0 (Cat# [TT210002]).