

## Product datasheet for TP314241

### Cardiac Troponin T (TNNT2) (NM\_001001430) Human Recombinant Protein

#### Product data:

|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Recombinant Proteins   |
| Description:                          | Purified recombinant protein of Homo sapiens troponin T type 2 (cardiac) (TNNT2), transcript variant 2, 20 µg  |
| Species:                              | Human  |
| Expression Host:                      | HEK293T  |
| Expression cDNA Clone or AA Sequence: | >RC214241 representing NM_001001430<br><b>Red</b> =Cloning site <b>Green</b> =Tags(s)  |
|                                       | MSDIEEWEEYEEEEQEEAAVEEQEEAAEEDAEAEAETEETRAEEDEEEEAKEAEDGPMEEKPKPRSF<br>MPNLVPPKIPDGERVDFDDIHRKRMEKDLNELQALIEAHFENRKKEEELVSLKDRIERRRAERAEQQR<br>RNEREKERQNRLAEERARREEEENRRKAEDEARKKKALSMMHFGGYIQKQAQTERKSGKRQTEREKKKK<br>ILAERRKVLAIIDLHNLNEDQLREKAKELWQSIYNLEAEKFDLQEKFKQKYEINVLRNRINDNQKVKSTRGK<br>AKVTGRWK |
|                                       | <b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>   |
| Tag:                                  | C-Myc/DDK  |
| Predicted MW:                         | 34.4 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.   |
| Note:                                 | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.   |
| Storage:                              | Store at -80°C.  |
| Stability:                            | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.  |
| RefSeq:                               | <u><a href="#">NP_001001430</a></u>  |
| Locus ID:                             | 7139   |



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UniProt ID: [P45379](#)

RefSeq Size: 1132

Cytogenetics: 1q32.1

RefSeq ORF: 864

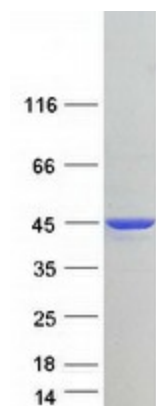
Synonyms: CMD1D; CMH2; CMPD2; cTnT; LVNC6; RCM3; TnTC

**Summary:** The protein encoded by this gene is the tropomyosin-binding subunit of the troponin complex, which is located on the thin filament of striated muscles and regulates muscle contraction in response to alterations in intracellular calcium ion concentration. Mutations in this gene have been associated with familial hypertrophic cardiomyopathy as well as with dilated cardiomyopathy. Transcripts for this gene undergo alternative splicing that results in many tissue-specific isoforms, however, the full-length nature of some of these variants has not yet been determined. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome

**Protein Pathways:** Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM)

### Product images:



Coomassie blue staining of purified TNNT2 protein (Cat# TP314241). The protein was produced from HEK293T cells transfected with TNNT2 cDNA clone (Cat# [RC214241]) using MegaTran 2.0 (Cat# [TT210002]).