

# Recombinant Full Length Human TNNT2 Protein, C-Flag-tagged

**Cat. No.** TNNT2-897HFL    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Full Length Human TNNT2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
<b>Species</b>	Human
<b>Source</b>	Mammalian Cells
<b>Description</b>	This gene encodes the cardiac isoform of troponin T. The encoded protein 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.
<b>Form</b>	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
<b>Molecular Mass</b>	35.4 kDa
<b>AA Sequence</b>	MSDIEEVVEEYEEEEQEEAAVEEEEDWREDEDEQEEAAEEDAEAEAETEETRAEED EEEEAKEAEDGPM EESKPKPRSFMPNLVPPKIPDGERVDFDDIHRKRMEKDLNEL QALIEAHFENRKKEEEELVSLKDRIERR RAERAEQQRIRNEREKERQNRLAEERAR REEEENRRKAEDEARKKKALSMMHFGGYIQKTERKSGKRQT EREKKKKILAERR KVLAIIDLHNLNEDQLREKAKELWQSIYNLEAEKFDLQEKFKQKYEINVLRNRINDNQK VSKTRGKAKVTGRWKTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining.
<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>Storage</b>	Store at -80 centigrade.
<b>Concentration</b>	>50 ug/mL as determined by microplate BCA method.
<b>Preparation</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Protein Families</b>	Druggable Genome
<b>Protein Pathways</b>	Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM)
<b>Full Length</b>	Full L.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">TNNT2 troponin T2, cardiac type [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	<a href="#">TNNT2</a>
<b>Synonyms</b>	CMH2; RCM3; TnTC; cTnT; CMD1D; CMPD2; LVNC6
<b>Gene ID</b>	<a href="#">7139</a>
<b>mRNA Refseq</b>	<a href="#">NM_000364.4</a>

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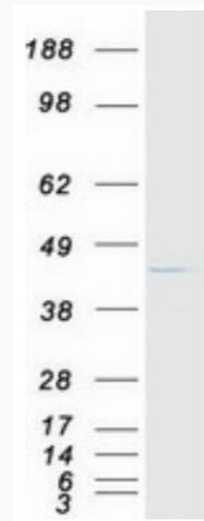
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**Protein Refseq** NP\_000355.2

**MIM** 191045

**UniProt ID** P45379



Coomassie blue staining of purified TNNT2 protein.

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