

## **Product datasheet for PH316642**

## OriGene Technologies, Inc.

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## TNNT3 (NM\_006757) Human Mass Spec Standard

**Product data:** 

**Product Type:** Mass Spec Standards

**Description:** TNNT3 MS Standard C13 and N15-labeled recombinant protein (NP\_006748)

Species:HumanExpression Host:HEK293

**Expression cDNA Clone** 

or AA Sequence:

RC216642

**Predicted MW:** 31 kDa

Protein Sequence: >RC216642 representing NM\_006757

Red=Cloning site Green=Tags(s)

MSDEEVEQVEEQYEEEEEAQEEEEVQEDTAEEDAEEEKPRPKLTAPKIPEGEKVDFDDIQKKRQNKDLME LQALIDSHFEARKKEEEELVALKERIEKRRAERAEQQRIRAEKERERQNRLAEEKARREEEDAKRRAEDD LKKKKALSSMGANYSSYLAKADQKRGKKQTAREMKKKILAERRKPLNIDHLGEDKLRDKAKELWETLHQL

EIDKFEFGEKLKRQKYDITTLRSRIDQAQKHSKKAGTPAKGKVGGRWK

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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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.

**RefSeq:** NP 006748

RefSeq Size: 1217 RefSeq ORF: 774

**Synonyms:** beta-TnTF; DA2B2; TNTF

Locus ID: 7140 UniProt ID: P45378





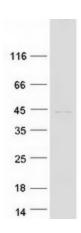
Cytogenetics:

11p15.5

Summary:

The binding of Ca(2+) to the trimeric troponin complex initiates the process of muscle contraction. Increased Ca(2+) concentrations produce a conformational change in the troponin complex that is transmitted to tropomyosin dimers situated along actin filaments. The altered conformation permits increased interaction between a myosin head and an actin filament which, ultimately, produces a muscle contraction. The troponin complex has protein subunits C, I, and T. Subunit C binds Ca(2+) and subunit I binds to actin and inhibits actinmyosin interaction. Subunit T binds the troponin complex to the tropomyosin complex and is also required for Ca(2+)-mediated activation of actomyosin ATPase activity. There are 3 different troponin T genes that encode tissue-specific isoforms of subunit T for fast skeletal-, slow skeletal-, and cardiac-muscle. This gene encodes fast skeletal troponin T protein; also known as troponin T type 3. Alternative splicing results in multiple transcript variants encoding additional distinct troponin T type 3 isoforms. A developmentally regulated switch between fetal/neonatal and adult troponin T type 3 isoforms occurs. Additional splice variants have been described but their biological validity has not been established. Mutations in this gene may cause distal arthrogryposis multiplex congenita type 2B (DA2B). [provided by RefSeq, Oct 2009]

## **Product images:**



Coomassie blue staining of purified TNNT3 protein (Cat# [TP316642]). The protein was produced from HEK293T cells transfected with TNNT3 cDNA clone (Cat# [RC216642]) using MegaTran 2.0 (Cat# [TT210002]).