OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for PH305676

Troponin I fast skeletal muscle (TNNI2) (NM_003282) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	TNNI2 MS Standard C13 and N15-labeled recombinant protein (NP_003273)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205676
Predicted MW:	21.3 kDa
Protein Sequence:	>RC205676 protein sequence Red=Cloning site Green=Tags(s) MGDEEKRNRAITARRQHLKSVMLQIAATELEKEESRREAEKQNYLAEHCPPLHIPGSMSEVQELCKQLHA KIDAAEEEKYDMEVRVQKTSKELEDMNQKLFDLRGKFKRPPLRRVRMSADAMLKALLGSKHKVCMDLRAN LKQVKKEDTEKERDLRDVGDWRKNIEEKSGMEGRKKMFESES 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_003273
RefSeq Size:	738
RefSeq ORF:	546
Synonyms:	AMCD2B; DA2B; DA2B1; FSSV; fsTnI
Locus ID:	7136
UniProt ID:	P48788

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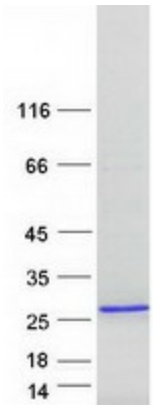
Cytogenetics: 11p15.5

Summary: This gene encodes a fast-twitch skeletal muscle protein, a member of the troponin I gene family, and a component of the troponin complex including troponin T, troponin C and troponin I subunits. The troponin complex, along with tropomyosin, is responsible for the calcium-dependent regulation of striated muscle contraction. Mouse studies show that this component is also present in vascular smooth muscle and may play a role in regulation of smooth muscle function. In addition to muscle tissues, this protein is found in corneal epithelium, cartilage where it is an inhibitor of angiogenesis to inhibit tumor growth and metastasis, and mammary gland where it functions as a co-activator of estrogen receptor-related receptor alpha. This protein also suppresses tumor growth in human ovarian carcinoma. Mutations in this gene cause myopathy and distal arthrogryposis type 2B. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Mar 2009]

Product images:



Coomassie blue staining of purified TNNI2 protein (Cat# [TP305676]). The protein was produced from HEK293T cells transfected with TNNI2 cDNA clone (Cat# [RC205676]) using MegaTran 2.0 (Cat# [TT210002]).