

## Product datasheet for **TP327419M**

### Troponin I fast skeletal muscle (TNNI2) (NM\_001145829) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human troponin I type 2 (skeletal, fast) (TNNI2), transcript variant 2, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC227419 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	 MGDEEKRNRITARRQHLSVMLQIAATELEKEESRREAQNYLAEHCPPLHIPGSMSEVQELCKQLHA KIDAAAAEKYDMEVRVQKTSKELEDMNQKLFDLRGKFKRPPLRRVRMSADAMLKALLGSKHKVCMDLRAN LKQVKKEDTEKERDLRDVGDWRKNIEEKSGMEGRKMMFESES  <b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-Myc/DDK
Predicted MW:	21.2 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_001139301</a></u>
Locus ID:	7136
UniProt ID:	<u><a href="#">P48788</a></u>



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RefSeq Size: 746

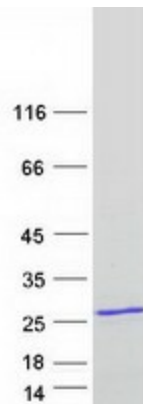
Cytogenetics: 11p15.5

RefSeq ORF: 546

Synonyms: AMCD2B; DA2B; DA2B1; FSSV; fsTnI

**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# [TP327419]). The protein was produced from HEK293T cells transfected with TNNI2 cDNA clone (Cat# [RC227419]) using MegaTran 2.0 (Cat# [TT210002]).