

### Product datasheet for AR50634PU-N

#### 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

## Fast skeletal muscle Troponin I (1-182, His-tag) Human Protein

**Product data:** 

**Product Type:** Recombinant Proteins

**Description:** Fast skeletal muscle Troponin I (1-182, His-tag) human recombinant protein, 0.1 mg

Species: Human
Expression Host: E. coli

**Expression cDNA Clone** 

or AA Sequence:

MGSSHHHHHH SSGLVPRGSH MGDEEKRNRA ITARRQHLKS VMLQIAATEL EKEESRREAE KQNYLAEHCP PLHIPGSMSE VQELCKQLHA KIDAAEEEKY DMEVRVQKTS KELEDMNQKL FDLRGKFKRP PLRRVRMSAD AMLKALLGSK HKVCMDLRAN LKQVKKEDTE KERDLRDVGD

WRKNIEEKSG MEGRKKMFES ES

Tag: His-tag
Predicted MW: 23.5 kDa
Concentration: lot specific

Purity: >90% by SDS - PAGE

**Buffer:** Presentation State: Purified

State: Liquid purified protein

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 2M Urea, 20% glycerol, 0.2M NaCl

**Preparation:** Liquid purified protein

**Protein Description:** Recombinant human TNNI2 protein, fused to His-tag at N-terminus, was expressed in E.coli.

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

**Stability:** Shelf life: one year from despatch.

**RefSeq:** NP 001139301

 Locus ID:
 7136

 UniProt ID:
 P48788

 Cytogenetics:
 11p15.5

Synonyms: AMCD2B; DA2B; DA2B1; FSSV; fsTnl

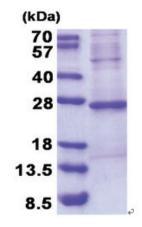




#### **Summary:**

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:**



15% SDS-PAGE (3ug)+