

## Recombinant Human TNNI2

Cat. No. TNNI2-30870TH Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant full length skeletal muscle Troponin I protein (Human).

**Species** Human

**Source** E.coli

**Description**

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.

**Form** Liquid

**Purity** >95% by SDS-PAGE

**Storage buffer** Preservative: None  
Constituents: 500mM Sodium chloride, 20mM Tris HCl, 10mM Beta mercaptoethanol, pH 7.5

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<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Sequence Similarities</b>	Belongs to the troponin I family.
<b>Full Length</b>	Full L.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	TNNI2 troponin I type 2 (skeletal, fast) [ Homo sapiens ]
<b>Official Symbol</b>	TNNI2
<b>Synonyms</b>	TNNI2; troponin I type 2 (skeletal, fast); troponin I, skeletal, fast; troponin I, fast skeletal muscle; AMCD2B; DA2B; FSSV; troponin I fast twitch 2; troponin I; fast twitch skeletal muscle isoform;
<b>Gene ID</b>	7136
<b>mRNA Refseq</b>	NM_001145829
<b>Protein Refseq</b>	NP_001139301
<b>MIM</b>	191043
<b>Uniprot ID</b>	P48788
<b>Chromosome Location</b>	11p15.5
<b>Pathway</b>	Muscle contraction, organism-specific biosystem; Striated Muscle Contraction, organism-specific biosystem; Striated Muscle Contraction, organism-specific

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biosystem;

**Function**

contributes\_to actin binding; protein binding; troponin T binding;

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