

#### OriGene Technologies, Inc.

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# Product datasheet for RC227636

## Troponin I fast skeletal muscle (TNNI2) (NM\_001145841) Human Tagged ORF Clone

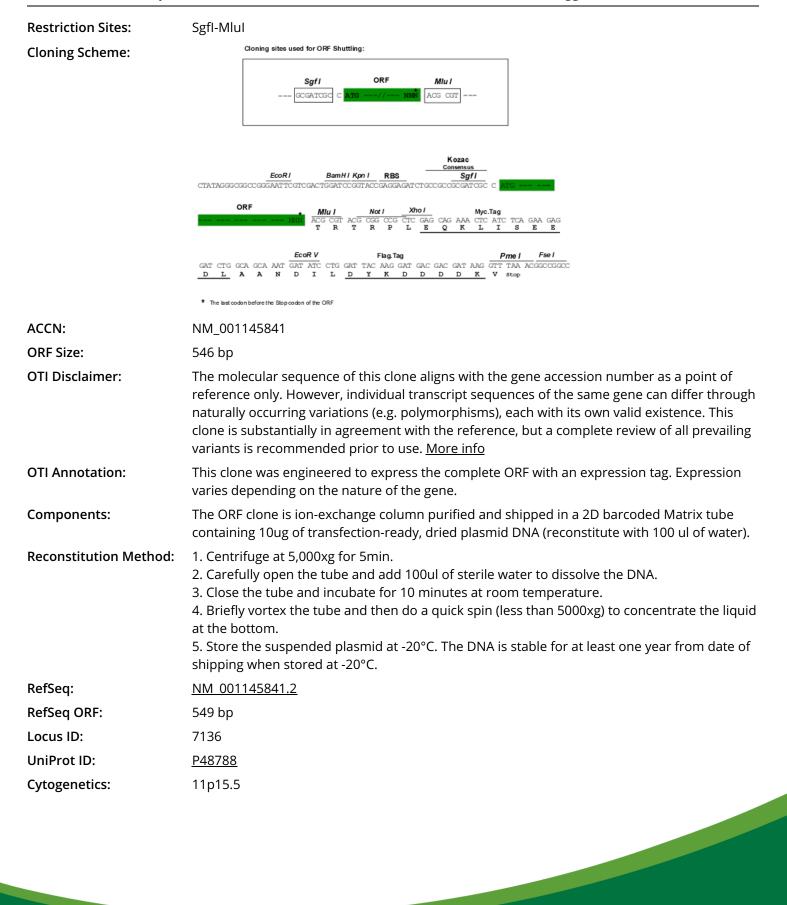
### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Troponin I fast skeletal muscle (TNNI2) (NM_001145841) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Troponin I fast skeletal muscle
Synonyms:	AMCD2B; DA2B; DA2B1; FSSV; fsTnl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RC227636 representing NM_001145841 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGTCCCAGTGCAAGAAGCGGAACAGGGCCATCACGGCCCGCAGGCAG
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG <b>GTTTAA</b>
Protein Sequence:	>RC227636 representing NM_001145841 <mark>Red=</mark> Cloning site Green=Tags(s)
	MSQCKKRNRAITARRQHLKSVMLQIAATELEKEESRREAEKQNYLAEHCPPLHIPGSMSEVQELCKQLHA KIDAAEEEKYDMEVRVQKTSKELEDMNQKLFDLRGKFKRPPLRRVRMSADAMLKALLGSKHKVCMDLRAN LKQVKKEDTEKERDLRDVGDWRKNIEEKSGMEGRKKMFESES
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6066_f12.zip



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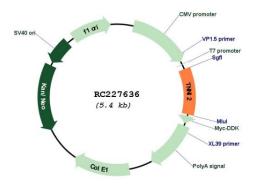
#### CRIGENE Troponin I fast skeletal muscle (TNNI2) (NM\_001145841) Human Tagged ORF Clone – RC227636



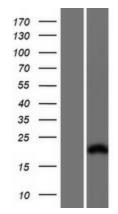
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	Troponin I fast skeletal muscle (TNNI2) (NM_001145841) Human Tagged ORF Clone – RC227636
MW:	21.2 kDa
Gene Summary:	This gene encodes a fast-twitch skeletal muscle protein, a member of the troponin I gene family, and a component of the troponin complex 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:**



Circular map for RC227636



Western blot validation of overexpression lysate (Cat# [LY429025]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227636 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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