

Product datasheet for **SC201176**

Troponin I fast skeletal muscle (TNNI2) (NM_003282) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	Troponin I fast skeletal muscle (TNNI2) (NM_003282) Human 3' UTR Clone
Symbol:	Troponin I fast skeletal muscle
Synonyms:	AMCD2B; DA2B; DA2B1; FSSV; fsTnl
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_003282
Insert Size:	157 bp
Insert Sequence:	>SC201176 3'UTR clone of NM_003282 The sequence shown below is from the reference sequence of NM_003282. The complete sequence of this clone may contain minor differences, such as SNPs. Blue =Stop Codon Red =Cloning site GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAA GCGATCGCC CGGAAGAAGATGTTTGTAGTCCGAGTCC TAG GCCACTCGCTGCCCCACGCCTGCCCGGTGCCCGGCTC CCAGCAGAACATACTAGGGAGATGCACCCAGAGCCTGCCAGGGAGGGCTGGCCTCACCACCACCGTCAA TAAAGGATTTGAATCCCCA ACGCGT AAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
Restriction Sites:	Sgfl-MluI
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	NM_003282.4



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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 arthrogyrosis type 2B. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Mar 2009]

Locus ID:

7136

MW:

6.1