

Product datasheet for **SC202704**

TNNT3 (NM_001042782) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	TNNT3 (NM_001042782) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	TNNT3
Synonyms:	beta-TnTF; DA2B2; TNTF
ACCN:	NM_001042782
Insert Size:	240 bp
Insert Sequence:	>SC202704 3'UTR clone of NM_001042782 The sequence shown below is from the reference sequence of NM_001042782. The complete sequence of this clone may contain minor differences, such as SNPs. Blue =Stop Codon Red =Cloning site GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC AAGGGCAAAGTCGGCGGGCGCTGGAAGTAGAGAGGCCAGAAAGGCCCTCGAGGCAGAGACCCTCCGCC CTCTTGACACACCAGGGCCGCTCGTGGGACTCCACATCTCCAGCCCCACAATCCTGTGTCAGGGGCTCCC TGACAGTCTGGGGTGGAGAGGCCATCCCGGGCGTCCCCCGCTGTGTCTTGTGCTGCCTTCATCC CCTGGGGCCTGTGAATAAAGCTGCAGAACCCCC ACGCGT AAGCGGCCGCGCATCTAGATTGGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
Restriction Sites:	SgfI-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:	<u>NM_001042782.3</u>



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Summary:

The binding of Ca(2+) to the trimeric troponin complex initiates the process of muscle contraction. Increased Ca(2+) concentrations produce a conformational change in the troponin complex that is transmitted to tropomyosin dimers situated along actin filaments. The altered conformation permits increased interaction between a myosin head and an actin filament which, ultimately, produces a muscle contraction. The troponin complex has protein subunits C, I, and T. Subunit C binds Ca(2+) and subunit I binds to actin and inhibits actin-myosin interaction. Subunit T binds the troponin complex to the tropomyosin complex and is also required for Ca(2+)-mediated activation of actomyosin ATPase activity. There are 3 different troponin T genes that encode tissue-specific isoforms of subunit T for fast skeletal-, slow skeletal-, and cardiac-muscle. This gene encodes fast skeletal troponin T protein; also known as troponin T type 3. Alternative splicing results in multiple transcript variants encoding additional distinct troponin T type 3 isoforms. A developmentally regulated switch between fetal/neonatal and adult troponin T type 3 isoforms occurs. Additional splice variants have been described but their biological validity has not been established. Mutations in this gene may cause distal arthrogyrosis multiplex congenita type 2B (DA2B). [provided by RefSeq, Oct 2009]

Locus ID:

7140

MW:

8.3