

Product datasheet for RC236926

TNNT3 (NM_001297646) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TNNT3 (NM_001297646) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TNNT3
Synonyms:	beta-TnTF; DA2B2; TNTF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC236926 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTGACGAGGAAGTTGAACAGGTGGAGGAGCAGTACGAAGAAGAAGAGGAAGCCAGGAGGAAGAGG
AAGTTCAAGAAGAGGAGAAAACCGAGACCCAACTCACTGCTCCTAAGATCCAGAAAGGGAGAAAGTGA
CTTCGATGACATCCAGAAGAAGCGTCAGAACAAAGACCTAATGGAGCTCCAGGCCCTCATCGACAGCCAC
TTTGAAGCCCGGAAGAAGGAGGAGGAGGAGCTGGTCGCTCTCAAAGAGAGAATCGAGAAGCGCCGTGCAG
AGAGAGCGGAGCAGCAGAGGATTCGTGCAGAGAAGGAGAGGGAGCGCCAGAACAGACTGGCGGAGGAAAA
GGCCAGAAGGGAGGAGGAGGATGCCAAGAGGAGGGCAGAGGACGACCTGAAGAAGAAGAAAGCTCTGTCT
TCCATGGGAGCCAACTACAGCAGCTACCTGGCCAAGGCTGACCAGAAGAGAGGCAAGAAGCAGACAGCCC
GGGAAATGAAGAAGAAGATTCTGGCTGAGAGACGCAAGCCGCTCAACATCGATCACCTTGGTGAAGACAA
ACTGAGGGACAAGGCCAAGGAGCTCTGGGAGACCCTGCACCAGCTGGAGATTGACAAGTTGAGTTTGGG
GAGAAGCTGAAACGCCAGAAATATGACATCACCACGCTCAGGAGCCGATTGACCAGGCCAGAAGCACA
GCAAGAAGGCTGGGACCCAGCCAAGGGCAAAGTCGGCGGGCGCTGGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001297646.2](#)

RefSeq Size: 1451 bp

RefSeq ORF: 753 bp

Locus ID: 7140

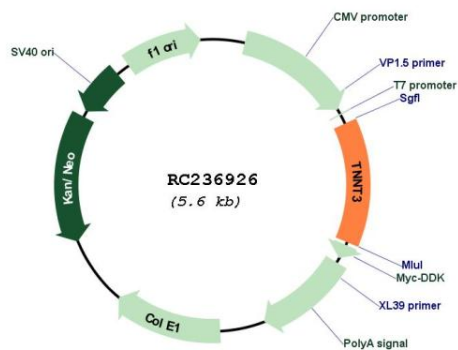
UniProt ID: [P45378](#)

Cytogenetics: 11p15.5

MW: 29.7 kDa

Gene 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]

Product images:



Circular map for RC236926