

Product datasheet for **SC124050**

Troponin I fast skeletal muscle (TNNI2) (NM_003282) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Troponin I fast skeletal muscle (TNNI2) (NM_003282) Human Untagged Clone
Tag:	Tag Free
Symbol:	Troponin I fast skeletal muscle
Synonyms:	AMCD2B; DA2B; DA2B1; FSSV; fsTnl
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC124050 sequence for NM_003282 edited (data generated by NextGen Sequencing) ATGGGAGATGAGGAGAAGCGGAACAGGGCCATCACGGCCCGCAGGCAGCACCTGAAGAGC GTGATGCTGCAGATAGCGCCACGGAGCTGGAGAAGGAGGAGAGCCCGCTGAGGCAGAG AAGCAGAACTACCTGGCGGAGCACTGCCCGCCGCTGCATATCCCAGGCTCCATGTCTGAA GTGCAGGAGCTCTGCAAACAGCTGCACGCCAAGATCGATGCGGCTGAAGAGGAGAAGTAC GACATGGAGGTGAGGGTGCAGAAGACCAGCAAGGAGCTGGAGGACATGAACCAGAAGCTA TTTGATCTGCGGGCAAGTTCAAGCGGCCCCACTGCGGAGGGTGCATGTGCGCCGAT GCCATGCTCAAGGCCCTGCTGGGCTCGAAGCACAAGGTGTGCATGGACCTGAGGGCCAAC CTGAAGCAGGTCAAGAAGGAGGACACAGAGAAGGAGCGGGACCTGCGAGACGTGGGTGAC TGGAGGAAGAACATCGAGGAGAAGTCTGGCATGGAGGGCCGGAAGAAGATGTTTGAGTCC GAGTCCTAG Clone variation with respect to NM_003282.3 60 t=>c



[View online »](#)

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_003282 unedited CACTATAGGGCGGCCGCGAATTTAAGAGATTGCTTGAAGGAGGCTCCAAGCTCAGGAC CTCAGGATGGGAGATGAGGAGAAGCGGAACAGGGCCATCACGGCCCGCAGGCAGCACCTG AAGAGCGTGATGCTGCAGATAGCGGCCACGGAGCTGGAGAAGGAGGAGAGCCCGTGAG GCAGAGAAGCAGAAGTACCTGGCGGAGCACTGCCCGCCGCTGCATATCCCGGGCTCCATG TCTGAAGTGCAGGAGCTTGCAAACAGCTGCACCCAAGATCGATGCCGGCTGAAGAGGA GAAGTACGACATGGAGGTGAGGGTGCAGAAGACCAGCAAGGAGCTGGAGGACATGAACCA GAAGCTATTTGATCTGCGGGCAAGTTCAAGCGGCCCCACTGCGGAGGGTGCATGTC GGCCGATGCCATGCTCAAGGCCCTGCTGGGCTCGAAGCACAAAGGTGTGCATGGACCTGAG GGCCAACCTGAAGCAGGTCAAGAAGGAGGACACAGAGAAGGAGCGGGACCTGCGAGACGT GNGTGACTGGAGGAAGAATCGAGGAGAAGTCTGGCATGGAGGGCCGGAAGAAGATGTT TGAGTCCGAGTCTAGGCCACTCGCTGCCCTACCCCTGCCCGGTGCCCGGCTCCCAGC AGAACATACTANGGAGATGCACCCAGAGCCCTGCCAGGAGGGCTGGCCTCACCACCACCG TCAATAAAGGATTTGAATCCCCAAAAAAA
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_003282 unedited NCCCCAGAGGCACTGGGGAGGGTACAGGGATGCCACCCGGGATCTGTTCAAGAAACAGC TATGACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTGGTTTTTTTGGGATTCAA ATCCTTTATTGACGGTGGTGGTGAAGGCCAGCCCTCCCTGGCAGGCTCTGGGTGCATCTCC CTAGTATGTTCTGCTGGGAGCCGGGCACCGGGCAGGCGTAGGGGCAGCGAGTGGCCTAT GACTCGGACTCAAACATTTCTTTCCGGCCCTCCATGCCAGACTTCTCCTCGATGTTCTT CCTCCAGTCACCCACGTCTCGCAGTCCCCTCTTCTGTGCTCCTCTTTGACCTG CTTGAGTGGCCCTCAGGTCCATGCACACCTTGTGCTTCGAGCCAGCANGGCCTTGAG CATGGCATCGGCCGACATGCGCACCCCTCCGAGTGGGGCCGCTTGAAGTTGCCCGCAG ATCAAATAGCTTCTGGTTCATGCTCCTCCAGCTCCTTGCTGGTCTTCTGCACCCCTACCTC CATGTCGTAATCTCCTTTCAGCCGCATCGATCTTGGCGTGCAGCTGTTTGCAGAGCTC CTGCACTTCANACATGGGAGCCCGGATATGCAGCGCNGGCAGTNGCTCGCCAGTAGTTC TGCTTTCTGCTCACGGCGGCTCTCTTCTCAGCTCGTGGCGTATCTGACATCACGCTCT ANGTGTGCTC
Restriction Sites:	Please inquire
ACCN:	NM_003282
Insert Size:	800 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 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:	<u>NM_003282.2</u> , <u>NP_003273.1</u>

RefSeq Size: 700 bp

RefSeq ORF: 549 bp

Locus ID: 7136

UniProt ID: [P48788](#)

Cytogenetics: 11p15.5

Domains: Troponin

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]

Transcript Variant: This variant (1) and variant 2 encode the same protein (isoform 1).