

Product datasheet for **SC118101**

Troponin C (TNNC2) (NM_003279) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Troponin C (TNNC2) (NM_003279) Human Untagged Clone
Tag:	Tag Free
Symbol:	Troponin C
Synonyms:	CFAP85; FAP85
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118101 sequence for NM_003279 edited (data generated by NextGen Sequencing) ATGACGGACCAGCAGGCTGAGGCCAGGTCCTACCTCAGCGAAGAGATGATCGCTGAGTTC AAGGCTGCCTTTGACATGTTTGATGCTGATGGTGGTGGGACATCAGCGTCAAGGAGTTG GGCACGGTGATGAGGATGCTGGGCCAGACCCACCAAGGAGGAGCTGGACGCCATCATC GAGGAGGTGGATGAGGACGGCAGCGCCACCATCGACTTCGAGGAGTTCTTGGTCATGATG GTGCGCCAGATGAAAGAGGACGCGAAAGGGAAGAGCGAGGAGGAGCTGGCCGAGTGCTTC CGCATCTTCGACAGGAATGCAGACGGCTACATCGACCCGGAGGAGCTGGCTGAGATTTTC AGGGCCTCCGGGAGCACGTGACTGACGAGGAGATCGAATCTCTGATGAAAGACGGCGAC AAGAACAACGACGGCCGATTGACTTCGACGAGTTCCTGAAGATGATGGAGGGCGTGAC TAA Clone variation with respect to NM_003279.2 384 g=>t



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_003279 unedited GGTTANAATTTGGATACGACTCCTATAGGGCGGCCGCAATTCGCACGAGGGTGCAAAGG AGGCGACTGCAACAGAGGAGTCCCGGTACCAGCAACCATGACGGACCAGCAGGCTGAG GCCAGGTCTACCTCAGCGAAGAGATGATCGCTGAGTTCAAGGCTGCCTTTGACATGTTT GATGCTGATGGTGGTGGGACATCAGCGTCAAGGAGTTGGGCACGGTGATGAGGATGCTG GGCCAGACACCCACCAAGGAGGAGCTGGACGCCATCATCGAGGAGGTGGATGAGGACGGC AGCGGCACCATCGACTTCGAGGAGTTCTTGGTCATGATGGTGCCAGATGAAAGAGGAC GCGAAAGGGAAGAGCGAGGAGGAGCTGGCCGAGTGCTCCGCATCTTCGACAGGAATGCA GACGGCTACATCGACCCGAGGAGCTGGCTGAGATTTTCAGGGCTCCGGGGAGCACGTG ACTGACGAGGAGATCGAATCTCTGATGAAAGACGGCGACAAGAACAACGACGGCCGATT GACTTCGACGAGTTCTGAAGATGATGGAGGGCGTGCAGTAAGGAGTGGACAGTCCGCC CTACCAAGATCGCGTGGCCCTAAGGTGTCGGGAGACTCCGCCCTGCCGGTCCCCACCA GGGAGGCGCGCCCTTGTGGTCTTTGGCTGGAAGGAATAATGCAAATGTTCCAAACC TCGTGGCTGAATGAGCGAAGCCAGGACCCACGTCGCAAGGGCTGTGCGTCAGGGG CCATTCCGGCTTGGCACCACCCGGACCACCTTGGGCACCCCGAGAGGCTGCCTTAC CGCGGCATGTGGTAGGAACCCGGGCCCTTGATCCCCAGGCGGCCCTGCCACTCTT CCATGGCGCTCGACTCCCT
Restriction Sites:	NotI-NotI
ACCN:	NM_003279
Insert Size:	2400 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_003279.2</u> , <u>NP_003270.1</u>
RefSeq Size:	698 bp
RefSeq ORF:	483 bp
Locus ID:	7125
UniProt ID:	<u>P02585</u>
Cytogenetics:	20q13.12
Domains:	EFh
Protein Pathways:	Calcium signaling pathway

Gene Summary:

Troponin (Tn), a key protein complex in the regulation of striated muscle contraction, is composed of 3 subunits. The Tn-I subunit inhibits actomyosin ATPase, the Tn-T subunit binds tropomyosin and Tn-C, while the Tn-C subunit binds calcium and overcomes the inhibitory action of the troponin complex on actin filaments. The protein encoded by this gene is the Tn-C subunit. [provided by RefSeq, Jul 2008]