

## Product datasheet for **SC319089**

### Cardiac Troponin T (TNNT2) (NM\_001001431) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cardiac Troponin T (TNNT2) (NM_001001431) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cardiac Troponin T
Synonyms:	CMD1D; CMH2; CMPD2; cTnT; LVNC6; RCM3; TnTC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_001001431.1  
 CTGAGCAGACGCCTCCAGGATCTGTCCGGCAGCTGCTGTTCTGAGGGAGAGCAGAGACCAT  
 GTCTGACATAGAAGAGGTGGTGGAAAGAGTACGAGGAGGAGGAGCAGGAAGAAGCAGCTGT  
 TGAAGAGCAGGAGGAGGCAGCGGAAGAGGATGCTGAAGCAGAGGCTGAGACCGAGGAGAC  
 CAGGGCAGAAGAAGATGAAGAAGAAGAGGAAGCAAGGAGGCTGAAGATGGCCCAATGGA  
 GGAGTCCAAACCAAGCCAGGTCGTTTCATGCCCAACTTGGTGCCTCCCAAGATCCCCGA  
 TGGAGAGAGAGTGGACTTTGATGACATCCACCGAAGCGCATGGAGAAGGACCTGAATGA  
 GTTGCAGGCGCTGATCGAGGCTCACTTTGAGAACAGGAAGAAAGAGGAGGAGGAGCTCGT  
 TTCTCTCAAAGACAGGATCGAGAGACGTCGGGCAGAGCGGGCCGAGCAGCAGCGCATCCG  
 GAATGAGCGGGAGAAGGAGCGGCAGAACCGCTGGCTGAAGAGAGGGCTCGACGAGAGGA  
 GGAGGAGAACAGGAGGAAGGCTGAGGATGAGGCCCGGAAGAAGAAGGCTTTGTCCAACAT  
 GATGCATTTTGGGGTTACATCCAGAAGACAGAGCGGAAAAGTGGGAAGAGGCAGACTGA  
 GCGGGAAAAGAAGAAGAAGATTCTGGCTGAGAGGAGGAAGGTGCTGGCCATTGACCACCT  
 GAATGAAGATCAGCTGAGGGAGAAGGCCAAGGAGCTGTGGCAGAGCATCTATAACTTGGGA  
 GGCAGAGAAGTTCGACCTGCAGGAGAAGTTCAAGCAGCAGAAAATATGAGATCAATGTTCT  
 CCGAAACAGGATCAACGATAACCAGAAAGTCTCCAAGACCCGCGGGAAGGCTAAAGTAC  
 CGGGCGCTGGAATAGAGCCTGGCCTCCTTCACCAAAGATCTGCTCCTCGCTCGCACCTG  
 CCTCCGGCCTGCACTCCCCAGTTCCTGGGGCCCTCCTGGGCACCCAGGCAGCTCCTGTT  
 TGGAAATGGGGAGCTGGCCTAGGTGGGAGCCACCACTCCTGCCTGCCCCACACCCACTC  
 CACACCAGTAATAAAAAGCCACCACACAAAAAAAAAAAAAAAAAAAAA

Restriction Sites:	Please inquire
ACCN:	NM_001001431



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<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001001431.1</a> , <a href="#">NP_001001431.1</a>
<b>RefSeq Size:</b>	1123 bp
<b>RefSeq ORF:</b>	858 bp
<b>Locus ID:</b>	7139
<b>UniProt ID:</b>	<a href="#">P45379</a>
<b>Cytogenetics:</b>	1q32.1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM)
<b>Gene Summary:</b>	<p>The protein encoded by this gene is the tropomyosin-binding subunit of the troponin complex, which is located on the thin filament of striated muscles and regulates muscle contraction in response to alterations in intracellular calcium ion concentration. Mutations in this gene have been associated with familial hypertrophic cardiomyopathy as well as with dilated cardiomyopathy. Transcripts for this gene undergo alternative splicing that results in many tissue-specific isoforms, however, the full-length nature of some of these variants has not yet been determined. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (3) lacks multiple in-frame exons, compared to variant 5. It encodes a shorter isoform (3) compared to isoform 5.</p>