

Product datasheet for SC333246

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Cardiac Troponin T (TNNT2) (NM_001276347) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Cardiac Troponin T (TNNT2) (NM_001276347) Human Untagged Clone

Tag: Tag Free

Symbol: Cardiac Troponin T

Synonyms: CMD1D; CMH2; CMPD2; cTnT; LVNC6; RCM3; TnTC

Vector: pCMV6-Entry (PS100001)

Fully Sequenced ORF: >SC333246 representing NM_001276347.

Blue=Insert sequence Red=Cloning site Green=Tag(s)

ACCCGCGGGAAGGCTAAAGTCACCGGGCGCTGGAAATAG

Restriction Sites: Sgfl-Mlul

ACCN: NM 001276347

Insert Size: 867 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:

- 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.

RefSeg: NM 001276347.1

 RefSeq Size:
 1307 bp

 RefSeq ORF:
 867 bp

 Locus ID:
 7139

 UniProt ID:
 P45379

 Cytogenetics:
 1q32.1

Protein Families: Druggable Genome

Protein Pathways: Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM)

MW: 34.6 kDa

Gene Summary: 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]

Transcript Variant: This variant (7) differs in the 5' UTR and lacks an in-frame exon in the 5' coding region compared to variant 5. The resulting protein (isoform 2) is shorter but has the same N- and C-termini compared to isoform 5. Variants 2 and 7 encode the same protein.