

Product datasheet for **TL315066**

Cardiac Troponin T (TNNT2) Human shRNA Plasmid Kit (Locus ID 7139)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Cardiac Troponin T (TNNT2) Human shRNA Plasmid Kit (Locus ID 7139)
Locus ID:	7139
Synonyms:	CMD1D; CMH2; CMPD2; cTnT; LVNC6; RCM3; TnTC
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	TNNT2 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 7139). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	<u>NM_000364</u> , <u>NM_001001430</u> , <u>NM_001001431</u> , <u>NM_001001432</u> , <u>NM_001276345</u> , <u>NM_001276346</u> , <u>NM_001276347</u> , <u>NM_001001431.1</u> , <u>NM_001001431.2</u> , <u>NM_000364.1</u> , <u>NM_000364.2</u> , <u>NM_000364.3</u> , <u>NM_001001430.1</u> , <u>NM_001001430.2</u> , <u>NM_001001432.1</u> , <u>NM_001001432.2</u> , <u>NM_001276346.1</u> , <u>NM_001276347.1</u> , <u>NM_001276345.1</u> , <u>BC002653</u> , <u>BC002653.2</u> , <u>NM_001001431.3</u> , <u>NM_001001430.3</u> , <u>NM_001276347.2</u> , <u>NM_001001432.3</u> , <u>NM_001276345.2</u> , <u>NM_001276346.2</u> , <u>NM_000364.4</u>
UniProt ID:	<u>P45379</u>
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]
shRNA Design:	These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact techsupport@origene.com . If you need a special design or shRNA sequence, please utilize our custom shRNA service .



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**Performance
Guaranteed:**

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).