

## Product datasheet for **MR224796**

### Tnnt2 (NM\_001130181) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tnnt2 (NM_001130181) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tnnt2
Synonyms:	cTnT; Tnt
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR224796 representing NM_001130181 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCCTGCCCTCAGCCAGTCCCTGCTGAGGCTGAACAGATACCTCAAGACCTGTGTGCAGTCCCTGTTC  
AGAGAGCCGAGAGCATGTCTGACGCCGAGGAGGTGGTGGAGGAGTACGAGGAGGAACAGGAAGAGCAAGA  
GGAGGCAGTGGAGGAGGAGGAGGCTGGTGGGGCTGAACCTGAGCCTGAGGGTGGAGCTGAGACAGAGGAG  
GCCAACGTAGAAGAGGTTGGTCTGATGAAGAAGCCAAAGATGCTGAAGAAGTCCAGTAGAGGACACCA  
AACCCAAGCCCAGCAGGCTCTTCATGCCCAACTGGTGCCACCCAAGATCCCCGATGGAGAGAGAGTGGA  
CTTTGATGACATCCACAGGAAGCGGTGGAGAAGGACCTGAATGAGCTACAGACTCTGATCGAGGCTCAC  
TTCGAGAACAGGAAGAAGGAGGAAGAGGAGCTGATTTCCCTCAAAGACAGGATCGAAAAGCGTCGGGCAG  
AGCGGGCCGAGCAGCAGCGTATTCGCAATGAGCGGGAGAAGGAAAGGCAGAACCCGCTGGCTGAAGAGAG  
GGCCCCGGCGTGAGGAGGAGGAGAACAGGAGGAAGGCTGAGGATGAGGCCCGGAAGAAGAAGGCTCTGTCC  
AACATGATGCACTTTGGAGGGTACATCCAGAAGCAAGCTCAGACAGAGCGGAAGAGTGGGAAGAGACAGA  
CAGAGAGAGAGAAGAAGAAGATCCTGGCAGAGAGGAGGAAGGCGCTGGCCATCGACCACCTGAATGA  
AGACCAACTGAGAGAGAAGGCCAAGGAGCTGTGGCAGAGTATTCACAACCTGGAGGCTGAGAAGTTCGAC  
CTGCAGGAAAAGTTCAAGCAGCAGAAATACGAAATCAACGTTCTGCGAAACCGGATCAATGACAACCAGA  
AAGTCTCCAAAACCTCGTGGGAAGGCCAAAGTACCAGGGCGTTGGAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR224796 representing NM\_001130181  
Red=Cloning site Green=Tags(s)

MPCPQPVAEAEQIPQDLCAVPVQRAESMSDAEEVVVEEYEEEQEEQEEAVEEEEEAGGAEPEPEGEAETEE  
 ANVEEVGPDEEAKDAEEGPDVETKPKPSRLFMPNLVPPKIPDGERVDFDDIHRKRVEKDLNELQTLIEAH  
 FENRKKEEEELISLKDRIEKRAERAQQRI RNEREKERQNLAEERARREEEENRRKAEDARKKKALS  
 NMMHFGGYIQKQAQTERKSGKRQTEREKKKKILAERRKALAIIDLHNLNEDQLREKAKELWQSIHNLEAEKFD  
 LQEKFKQKYEINVLRRINDNQKYSKTRGKAKVTGRWK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001130181

**ORF Size:** 957 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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.

**RefSeq:** [NM\\_001130181.2](#), [NP\\_001123653.4](#)

**RefSeq Size:** 1165 bp

**RefSeq ORF:** 960 bp

**Locus ID:** 21956

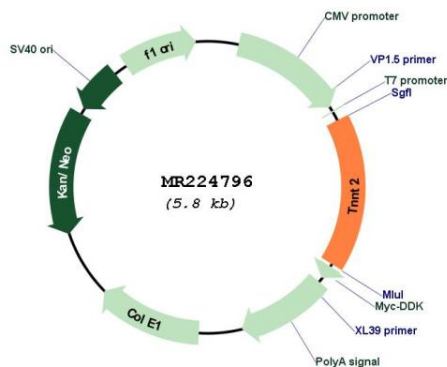
**UniProt ID:** [P50752](#)

**Cytogenetics:** 1 59.32 cM

**MW:** 38 kDa

**Gene Summary:** Troponin T is the tropomyosin-binding subunit of troponin, the thin filament regulatory complex which confers calcium-sensitivity to striated muscle actomyosin ATPase activity. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR224796