

## Product datasheet for MR223154

### Tnnt2 (NM\_001130176) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tnnt2 (NM_001130176) 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:	>MR223154 representing NM_001130176 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTGACGCCGAGGAGGTGGTGGAGGAGTACGAGGAGGAACAGGAAGAGGAAGACTGGAGTGAAGAAG  
AGGAGGACGAGCAAGAGGAGGCCAGTGGAGGAGGAGGAGGCTGGTGGGGCTGAACCTGAGCCTGAGGGTGA  
GGCTGAGACAGAGGAGGCCAACGTAGAAGAGGTTGGTCTGATGAAGAAGCCAAAGATGCTGAAGAAGGT  
CCAGTAGAGGACACCAAACCAAGCCCAGCAGGCTCTTCATGCCCAACTGGTGCCACCCAAGATCCCCG  
ATGGAGAGAGAGTGGACTTTGATGACATCCACAGGAAGCGGTGGAGAAGGACCTGAATGAGCTACAGAC  
TCTGATCGAGGCTCACTTCGAGAACAGGAAGAAGGAGGAAGAGGAGCTGATTTCCCTCAAAGACAGGATC  
GAAAAGCGTCGGGCAGAGCGGGCCGAGCAGCAGCGTATTCGCAATGAGCGGGAGAAGGAAAAGGCAGAAC  
GCCTGGCTGAAGAGAGGGCCCGGCGTGAGGAGGAGGAGAACAGGAGGAAGGCTGAGGATGAGGCCGGAA  
GAAGAAGGCTCTGTCCAACATGATGCACTTTGGAGGGTACATCCAGAAGCAAGCTCAGACAGAGCGGAAG  
AGTGGGAAGAGACAGACAGAGAGAGAAGAAGAAGATCCTGGCAGAGAGGAGGAAGGCGCTGGCCA  
TCGACCACCTGAATGAAGACCAACTGAGAGAGAAGGCCAAGGAGCTGTGGCAGAGTATTCACAACCTGGA  
GGCTGAGAAGTTCGACCTGCAGGAAAAGTTCAAGCAGCAGAAAATACGAAATCAACGTTCTGCGAAACCGG  
ATCAATGACAACCAGAAAGTCTCAAAAACCTCGTGGGAAGGCCAAAGTACCGGGCGTTGGAAA

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR223154 representing NM\_001130176  
Red=Cloning site Green=Tags(s)

MSDAEEVVEEYEEEQEEEDWSEEEEDQEEAVEEEEEAGGAEPPEGEAETEEANVEEVGPDEEAKDAEEG  
 PVEDTKPKPSRLFMPNLVPPKIPDGERVDFDDIHRKRVEKDLNELQTLIEAHFENRKKKEEELISLKDRI  
 EKRRRAERAEQQRIRNEREKERQNLAEERARREEEENRRKAEDEARKKKALSNMMHFGGYIQKQAQTERK  
 SGKRQTEREKKKKILAERRKALIDHLNEDQLREKAKELWQSIHNLEAEKFDLQEKFKQQKYEINVLRRN  
 INDNQVSKTRGKAKVTGRWK

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\_001130176

**ORF Size:** 903 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\\_001130176.1](#), [NP\\_001123648.1](#)

**RefSeq Size:** 1150 bp

**RefSeq ORF:** 906 bp

**Locus ID:** 21956

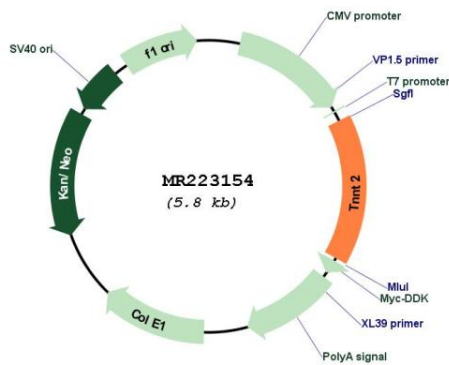
**UniProt ID:** [P50752](#)

**Cytogenetics:** 1 59.32 cM

**MW:** 36.3 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 MR223154