

Product datasheet for **MG223331**

Tnnt2 (NM_001130179) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tnnt2 (NM_001130179) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tnnt2
Synonyms:	cTnT; Tnt
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG223331 representing NM_001130179 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCTGCCCTCAGCCAGTCCCTGCTGAGGCTGAACAGATACCTCAAGACCTGTGTGCAGTCCCTGTTC
AGAGAGCCGAGAGCATGTCTGACGCCGAGGAGGTGGTGGAGGAGTACGAGGAGGAACAGGAAGAAGCTGT
GGAAGAGCAAGAGGAGGCAGTGGAGGAGGAGGAGGCTGGTGGGGCTGAACCTGAGCCTGAGGGTGAAGCT
GAGACAGAGGAGGCCAACGTAGAAGAGGTTGGTCTGATGAAGAAGCCAAAGATGCTGAAGAAGGTCAG
TAGAGGACACCAACCCAAGCCAGCAGGCTCTTCATGCCCAACTGGTGCCACCAAGATCCCCGATGG
AGAGAGAGTGGACTTTGATGACATCCACAGGAAGCGCGTGGAGAAGGACCTGAATGAGCTACAGACTCTG
ATCGAGGCTCACTTCGAGAACAGGAAGAAGGAGGAAGAGGAGCTGATTTCCCTCAAAGACAGGATCGAAA
AGCGTCGGGCAGAGCGGGCCGAGCAGCAGCGTATTGCAATGAGCGGGAGAAGGAAGGCAGAACCAGCT
GGCTGAAGAGAGGGCCCGCGTGAAGGAGGAGGAGAAGCAGGAGGAAGGCTGAGGATGAGGCCCGGAAGAAG
AAGGCTCTGTCCAACATGATGCACTTTGGAGGGTACATCCAGAAGCAAGCTCAGACAGAGCGGAAGAGTG
GGAAGAGACAGACAGAGAGAGAAGAAGAAGAAGATCCTGGCAGAGAGGAGGAAGGCGCTGGCCATCGA
CCACCTGAATGAAGACCAACTGAGAGAGAAGGCCAAGGAGCTGTGGCAGAGTATTCAACCTGGAGGCT
GAGAAGTTCGACTGCAGGAAAAGTTCAAGCAGCAGAAATACGAAATCAACGTTCTCGGAAACCGGATCA
ATGACAACCAGAAAGTCTCCAAAACCTCGTGGGAAGGCCAAAGTCAACCGGCGTTGGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG223331 representing NM_001130179
 Red=Cloning site Green=Tags(s)

MPCPQVPAAEQIPQDLCAVPVQRAESMSDAEEVVVEEYEEEQEEAVEEQEEAVEEEEEAGGAEPEPEGEA
 ETEEANVEEVGPDEEAKDAEEGVEDTKPKPSRLFMPNLVPPKIPDGERVDFDDIHRKRVEKDLNELQTL
 IEAHFENRKKEEELISLKDRIEKRAERAQQRIRNEREKERQNLAEERARREEEENRRKADEARKK
 KALSNMMHFGGYIQKQAQTERKSGKRQTEREKKKKILAERRKALAIIDLHNLNEDQLREKAKELWQSIHNLEA
 EKFDLQEKFKQKYEINVLNRNRINDNQKYSKTRGKAKVTGRWK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001130179

ORF Size: 969 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_001130179.2](#), [NP_001123651.4](#)

RefSeq Size: 1177 bp

RefSeq ORF: 972 bp

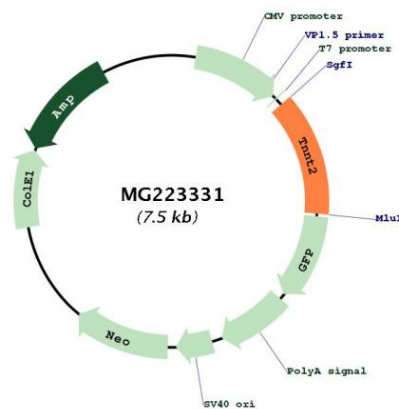
Locus ID: 21956

UniProt ID: [P50752](#)

Cytogenetics: 1 59.32 cM

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 MG223331