

Product datasheet for **MG223154**

Tnnt2 (NM_001130176) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tnnt2 (NM_001130176) 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:	>MG223154 representing NM_001130176 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTGACGCCGAGGAGGTGGTGGAGGAGTACGAGGAGGAACAGGAAGAGGAAGACTGGAGTGAAGAAG
AGGAGGACGAGCAAGAGGAGGCCAGTGGAGGAGGAGGAGGCTGGTGGGGCTGAACCTGAGCCTGAGGGTGA
GGCTGAGACAGAGGAGGCCAACGTAGAAGAGGTTGGTCTGATGAAGAAGCCAAAGATGCTGAAGAAGGT
CCAGTAGAGGACACCAAACCAAGCCCAGCAGGCTCTTCATGCCCAACTGGTGCCACCCAAGATCCCCG
ATGGAGAGAGAGTGGACTTTGATGACATCCACAGGAAGCGGTGGAGAAGGACCTGAATGAGCTACAGAC
TCTGATCGAGGCTCACTTCGAGAACAGGAAGAAGGAGGAAGAGGAGCTGATTTCCCTCAAAGACAGGATC
GAAAAGCGTCGGGCAGAGCGGGCCGAGCAGCAGCGTATTCGCAATGAGCGGGAGAAGGAAAAGGCAGAAC
GCCTGGCTGAAGAGAGGGCCCGGCGTGAGGAGGAGGAGAACAGGAGGAAGGCTGAGGATGAGGCCGGAA
GAAGAAGGCTCTGTCCAACATGATGCACTTTGGAGGTTACATCCAGAAGCAAGCTCAGACAGAGCGGAAG
AGTGGGAAGAGACAGACAGAGAGAGAGAAGAAGAAGATCCTGGCAGAGAGGAGGAAGGCGCTGGCCA
TCGACCACCTGAATGAAGACCAACTGAGAGAGAAGGCCAAGGAGCTGTGGCAGAGTATTCACAACCTGGA
GGCTGAGAAGTTCGACCTGCAGGAAAAGTTCAAGCAGCAGAAAATACGAAATCAACGTTCTGCGAAAACCGG
ATCAATGACAACCAGAAAGTCTCAAAAACCTCGTGGGAAGGCCAAAGTACCGGGCGTTGGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG223154 representing NM_001130176
Red=Cloning site Green=Tags(s)

MSDAEEVVEEYEEEQEEEDWSEEEEDQEEAVEEEEEAGGAEPPEGEAEETEEANVEEVGPDEEAKDAEEG
 PVEDTKPKPSRLFMPNLVPPKIPDGERVDFDDIHRKRVEKDLNELQTLIEAHFENRKKEEELISLKDRI
 EKRRARAEEQQRIRNEREKERQNLAEERARREEEENRRKADEARKKKALSNMMHFGGYIQKQAQTERK
 SGKQRTEREKKKKILAERRKALIDHLNEDQLREKAKELWQSIHNLEAEKFDLQEKFKQQKYEINVLNRN
 INDNQVSKTRGKAKVTGRWK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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

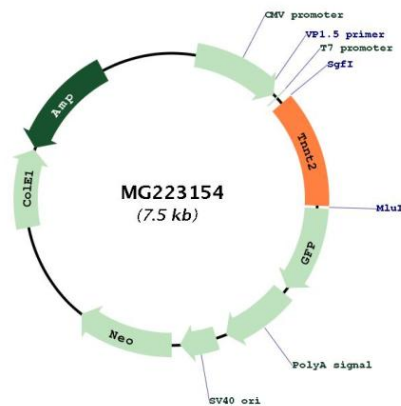
Locus ID: 21956

UniProt ID: [P50752](#)

Cytogenetics: 1 59.32 cM

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 MG223154