

## Product datasheet for **MG223975**

### Tnnt2 (NM\_001130177) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tnnt2 (NM_001130177) 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:	>MG223975 representing NM_001130177 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTGACGCCGAGGAGGTGGTGGAGGAGTACGAGGAGGAACAGGAAGAGGAAGACTGGAGTGAAGAAG  
AGGAGGACGAGCAAGAGGAGGCCAGTGGAGGAGGAGGAGGCTGGTGGGGCTGAACCTGAGCCTGAGGGTGA  
GGCTGAGACAGAGGAGGCCAACGTAGAAGAGGTTGGTCTGATGAAGAAGCCAAAGATGCTGAAGAAGGT  
CCAGTAGAGGACACCAAACCAAGCCCAGCAGGCTCTTCATGCCCAACTGGTGCCACCCAAGATCCCCG  
ATGGAGAGAGAGTGGACTTTGATGACATCCACAGGAAGCGGTGGAGAAGGACCTGAATGAGCTACAGAC  
TCTGATCGAGGCTCACTTCGAGAACAGGAAGAAGGAGGAAGAGGAGCTGATTTCCCTCAAAGACAGGATC  
GAAAAGCGTCGGGCAGAGCGGGCCGAGCAGCAGCGTATTCGCAATGAGCGGGAGAAGGAAAAGGCAGAAC  
GCCTGGCTGAAGAGAGGGCCCGGCGTGAGGAGGAGGAGAACAGGAGGAAGGCTGAGGATGAGGCCGGAA  
GAAGAAGGCTCTGTCCAACATGATGCACTTTGGAGGGTACATCCAGAAGACAGAGCGGAAGAGTGGGAAG  
AGACAGACAGAGAGAGAGAAGAAGAAGATCCTGGCAGAGAGGAGGAAGGCGCTGGCCATCGACCACC  
TGAATGAAGACCAACTGAGAGAGAAGGCCAAGGAGCTGTGGCAGAGTATTCACAACCTGGAGGCTGAGAA  
GTTTCGACCTGCAGGAAAAGTTCAAGCAGCAGAAATACGAAATCAACGTTCTGCGAAACCGGATCAATGAC  
AACCAGAAAGTCTCCAAAACCTCGTGGGAAGGCCAAAGTACCGGGCGTTGGAAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG223975 representing NM\_001130177  
 Red=Cloning site Green=Tags(s)

```
MSDAEEVVEEYEEEQEEEDWSEEEEDQEEAVEEEEEAGGAEPPEGEAEETEEANVEEVGPDEEAKDAEEG
PVEDTKPKPSRLFMPNLVPPKIPDGERVDFDDIHRKRVEKDLNELQTLIEAHFENRKKEEEELISLKDRI
EKRRRAERAEQQIRNREKERQNRLAEEERARREEEENRRKAEDEARKKKALSNMMHFGGYIQKTERKSGK
RQTEREKKKKILAERRKALAIIDLNEDQLREKAKELWQSIHNLEAEKFDLQEKFKQKYEINVLNRIND
NQKVSKTRGKAKVTGRWK
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001130177

**ORF Size:** 894 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\\_001130177.2](#), [NP\\_001123649.1](#)

**RefSeq Size:** 1190 bp

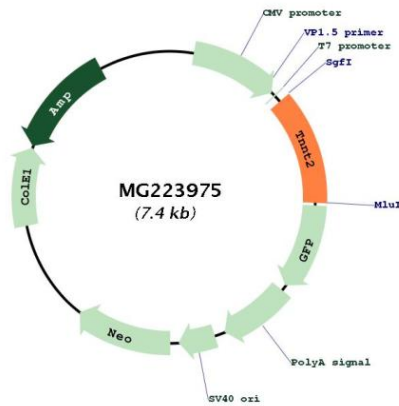
**RefSeq ORF:** 897 bp

**Locus ID:** 21956

**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 MG223975