

## Product datasheet for **MG221586**

### Tnnt3 (NM\_011620) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tnnt3 (NM_011620) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tnnt3
Synonyms:	fTnT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG221586 representing NM_011620 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTGACGAGGAACTGAACAAGTTGAGGAGGAGGCCAAGAGGAAGAAGTCCAGGAGGAAGCCCCG  
AACCAGAGGAGAAACCAAGACCCAACTTACTGCTCCTAAGATCCCGAAGGGGAGAAAGTAGACTTTGA  
TGACATCCAGAAGAAGCGTCAAAACAAGGACCTCATGGAGCTCCAAGCCCTCATTGACAGCCACTTTGAA  
GCTAGAAAAGAAAGAAGAAGAGGAGCTAATCGCACTTAAAGAAAGAATTGAGAAGCGCCGTGCAGAGAGGG  
CTGAGCAGCAAAGAATTCGCGCTGAGAAGGAGCGGGAACGCCAGAACAGATTGGCGGAGGAGAAGGCCAG  
AAGAGAGGAGGAGGATGCCAAGAGGAGAGCTGAAGATGACATGAAGAAGAAAAGGCTCTGCTCCTCATG  
GGTGCCAACTACAGCAGCTACCTGGCCAAGGCTGACCAGAAGAGAGGCAAGAAAACAGACAGCCCGGAA  
TGAAAAAGAAGATTCTTGCCGAAAGGCGCAAGCCTCTGAACATTGACCATCTTAGCGATGACAAGCTGAG  
GGACAAGGCCAAGGAAGCTCTGGGATACCTTGTACCAACTGGAGACTGACAAATTCGAGTTTGGGGAGAAG  
CTGAAACGTCAGAAATATGATATCACCACCCTCAGGAGCCGCATTGACCAAGCCCAGAAGCACAGCAAGA  
AGGCCGGTGCCACAGCCAAGGGCAAAGTCGGTGGGCGCTGGAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG221586 representing NM\_011620  
 Red=Cloning site Green=Tags(s)

MSDEETEQVEEEAQEEVQEEAPEPEEKPRPKLTAPKIPEGEKVFDDIQKKRQNKDLMELQALIDSHFE  
 ARKKEEEELIALKERIEKRRAERAQQRIRAERERQNRLAEEKARREEEDAKRRAEDDMKKKKALSSM  
 GANYSSYLAKADQKRGKKQTAREMKKKILAERRKPLNIDHLSDDKLRDKAKELWDTLYQLETDKFEFGEK  
 LKRQKYDITTLRSRIDQAQKHSKKAGATAKGKVGGRWK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**ACCN:** NM\_011620

**ORF Size:** 744 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\\_011620.3](#), [NP\\_035750.2](#)

**RefSeq Size:** 1036 bp

**RefSeq ORF:** 747 bp

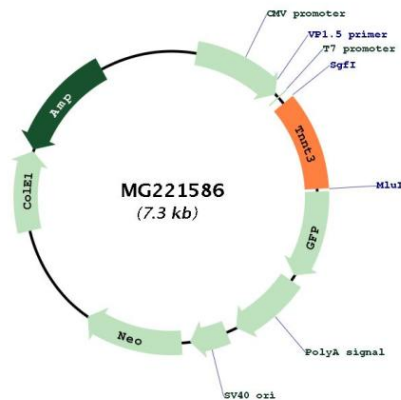
**Locus ID:** 21957

**UniProt ID:** [Q9QZ47](#)

**Cytogenetics:** 7 87.94 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 MG221586