

Product datasheet for **MG221578**

Tnnt1 (NM_011618) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tnnt1 (NM_011618) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tnnt1
Synonyms:	AW146156; ss; ssTnT; sT; sTnT; Tn; Tnt
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG221578 representing NM_011618 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCAGACACCGAAGAACAAGAATATGAGGAGGAGCAGGCAGAAGATGAGGAAGCGGTGGAGGAGGAGG
AAGCCCCGAGGAGCCGGAGCCGGTGGCAGAGCGAGAAGAAGAGCGCCCCAAACCCAGCCGTCCTGTGGT
GCCTCCTTTGATCCCCGAAGATTCCAGAAGGGGAGCGTGTGGATTTTGATGACATCCACCGAAGCGC
ATGGAGAAAGACTTACTGGAGCTGCAGACGCTCATCGACGTGCACTTTGAACAGCGGAAAAAGGAGGAGG
AAGAGCTCATTGCACTAAAAGACCGCATTGAGAGGCGACGCGCAGAGAGAGCTGAGCAACAGCGCTTCAG
AACGGAAAAGGAGCGAGAACGCCAGGCCAAGCTGGCGGAGGAGAAGATGCGGAAGGAGGAGGAGGAGGCA
AAGAAGAGAGCAGAGGATGACGCCAAGAAGAAGAAAGTTCTGTCCAACATGGGAGCTCATTTTGGGGCT
ACCTGGTCAAGGCAGAACAGAAGCGTGGGAAGCGACAGACTGGTCCGGGAGATGAAACTCCGGATTCTGTC
TGAGAGGAAAAAGCCCTTGAACATCGACTACATGGGGGAGGACCAGCTCCGGGAAAAGGCCAGGAGCTG
TCAGAAATGGATCCACCAGCTGGAATCAGAAAAATTTGACCTGATGGAGAAGTTGAAGCAACAGAAATATG
AGATCAATGTGCTCTACAACCGCATCAGCCACGCCAGAAATCCGAAAGGGGCTGGGAAGGGTCGAGT
TGGAGCCGCTGGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG221578 representing NM_011618
 Red=Cloning site Green=Tags(s)

MSDTEEQEYEEEEQAEDDEEAVEEEEEAPEEPEPVAEREEERP KPSRPVVPPLIPPKIPEGERVDFDDIHRKR
 MEKDLLEQLTLIDVHFQQRKKEEEELIALKDRIERRRAERAQQRFRTKEKERERQAKLAEEKMRKEEEEA
 KKRAEDDAKKKKVLSNMGAFHGGYL VKAEQKRGKRQTGREMKLRILSERKKPLNIDYMGEDQLREKAQEL
 SEWIHQLESEKFDLMEK LKQQKYEINVL YNRISHAQKFRKGAGKGRVGGRWK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_011618

ORF Size: 783 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_011618.1](#)

RefSeq Size: 934 bp

RefSeq ORF: 786 bp

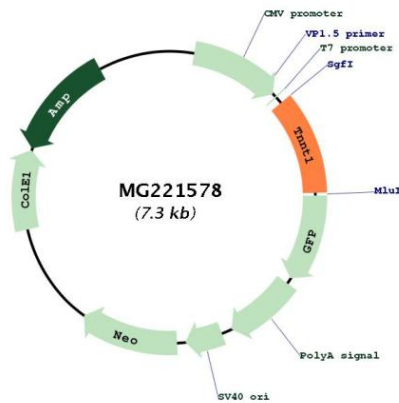
Locus ID: 21955

UniProt ID: [O88346](#)

Cytogenetics: 7 2.6 cM

Gene Summary: This gene encodes the slow skeletal tropomyosin-binding subunit of the troponin complex and plays an essential role in the regulation of striated muscle contraction. In humans, mutations in this gene are associated with nemaline myopathy type 5. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2013]

Product images:



Circular map for MG221578