

Product datasheet for **MC226580**

Tnnt1 (NM_001277904) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tnnt1 (NM_001277904) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tnnt1
Synonyms:	AW146156; ss; ssTnT; sT; sTnT; Tn; Tnt
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC226580 representing NM_001277904 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCAGACACCGAAGAACAAGAATATGAGGAGGAGCAGGCAGAAGATGAGGAAGCGGTGGAGGAGGAGG
AAGAAGAGCGCCCAAACCCAGCCGTCTGTGGTGCTCTTTGATTCCTCCGAAGATCCAGAAGGGGA
GCGTGTGGATTTGATGACATCCACCGGAAGCGCATGGAGAAAGACTTACTGGAGCTGCAGACGCTCATC
GACGTGCACTTTGAACAGCGGAAAAAGGAGGAGGAAGAGCTCATTGCACTAAAAGACCGCATTGAGAGGC
GACGCGCAGAGAGAGCTGAGCAACAGCGCTTCAGAACGGAAAAGGAGCGAGAACGCCAGGCAAGCTGGC
GGAGGAGAAGATGCGGAAGGAGGAGGAGGAGGCAAGAAGAGAGCAGAGGATGACGCCAAGAAGAAGAAA
GTTCTGTCCAACATGGGAGCTCATTGTTGGGGCTACCTGGTCAAGGCAGAACAGAAGCGTGGGAAGCGAC
AGACTGGTCGGGAGATGAACTCCGGATTCTGTCTGAGAGGAAAAAGCCCTTGAACATCGACTACATGGG
GGAGGACCAGCTCCGGGAAAAGGCCAGGAGCTGTGAGAAATGGATCCACCAGCTGGAATCAGAAAAATTT
GACCTGATGGAGAAGTTGAAGCAACAGAAATATGAGATCAATGTGCTCTACAACCGCATCAGCCACGCC
AGAAATCCGAAAGGGGGCTGGGAAGGGTCGAGTTGGAGGCCGCTGGAAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001277904
Insert Size:	753 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none"> 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001277904.1</u> , <u>NP_001264833.1</u>
RefSeq Size:	994 bp
RefSeq ORF:	753 bp
Locus ID:	21955
UniProt ID:	<u>O88346</u>
Cytogenetics:	7 2.6 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) lacks an alternate in-frame exon and uses an alternate in-frame splice site in the 5' coding region compared to variant 1. This results in a shorter protein (isoform 3, also known as low Mr isoform), compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>