

Product datasheet for **MR221587**

Tnnt3 (NM_001163670) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tnnt3 (NM_001163670) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Tnnt3
Synonyms: fTnT
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR221587 representing NM_001163670
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTGACGAGGAACTGAACAAGTTGAGGAGGAGGCCAAGAGGAAGAGGAAGTCCAAGAAGAGGAGA
AACCAAGACCCAACTTACTGCTCCTAAGATCCCAGGAGGGGAGAAAGTAGACTTTGATGACATCCAGAA
GAAGCGTCAAACAAGGACCTCATGGAGCTCAAGCCCTCATTGACAGCCACTTTGAAGCTAGAAAGAAA
GAAGAAGAGGAGCTAATCGCACTTAAAGAAAGAATTGAGAAGCGCCGTGCAGAGAGGGCTGAGCAGCAA
GAATTCGCGCTGAGAAGGAGCGGAACGCCAGAACAGATTGGCGGAGGAGAAGGCCAGAAGAGAGGAGGA
GGATGCCAAGAGGAGAGCTGAAGATGACATGAAGAAGAAAAGGCTCTGTCTCCATGGGTGCCAACTAC
AGCAGCTACCTGGCCAAGGCTGACCAGAAGAGAGGCAAGAAAACAGACAGCCCGGAAATGAAAAAGAAGA
TTCTTGCCGAAAGGCGCAAGCCTCTGAACATTGACCATCTTAGCGATGACAAGCTGAGGGACAAGGCCAA
GGAAGCTGGGATACCTTGTACCAACTGGAGACTGACAAATTCGAGTTTGGGGAGAAGCTGAAACGTCAG
AAATATGATATCACCCCTCAGGAGCCGCATTGACCAAGCCCAGAAGCACAGCAAGAAGGCCGGTGCCA
CAGCCAAGGGCAAAGTCGGTGGGCGCTGGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR221587 representing NM_001163670
Red=Cloning site Green=Tags(s)

MSDEETEQVEEEAQEEEEVQEEKPRPKLTAPKIPEGEKVDFDDIQKQRQNKDLMELQALIDSHFEARKK
 EEEELIALKERIEKRAERAEEQQRIRAEKERERQNLRAEEKARREEEDAKRRAEDDMKKKKALSSMGANY
 SSYLAKADQKRGKKQTAREMKKKILAERRKPLNIDHLSDDKLRDKAKELWDTLYQLETDKFGEKLRQ
 KYDITTLRSRIDQAQKHSKKAGATAKGKVGGRWK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_001163670

ORF Size: 732 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_001163670.1](#), [NP_001157142.1](#)

RefSeq Size: 1024 bp

RefSeq ORF: 735 bp

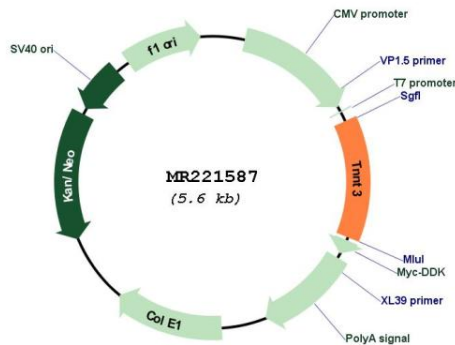
Locus ID: 21957

Cytogenetics: 7 87.94 cM

MW: 29.4 kDa

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 MR221587