

Product datasheet for MR223984

Tnnt2 (NM_001130180) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tnnt2 (NM_001130180) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tnnt2
Synonyms:	cTnT; Tnt
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR223984 representing NM_001130180 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCTGACGCCGAGGAGGTGGTGGAGGAGTACGAGGAGGAACAGGAAGAGCAAGAGGAGGCAGTGGAGG
AGGAGGAGGCTGGTGGGGCTGAACCTGAGCCTGAGGGTGAGGCTGAGACAGAGGAGGCCAACGTAGAAGA
GGTTGGTCCTGATGAAGAAGCCAAAGATGCTGAAGAAGGTCCAGTAGAGGACACCAAACCAAGCCAGC
AGGCTCTTCATGCCCAACTTGGTGCCACCCAAGATCCCCGATGGAGAGAGAGTGGACTTTGATGACATCC
ACAGGAAGCGCGTGGAGAAGGACCTGAATGAGCTACAGACTCTGATCGAGGCTCACTTCGAGAACAGGAA
GAAGGAGGAAGAGGAGCTGATTTCCCTCAAAGACAGGATCGAAAAGCGTCGGGCAGAGCGGGCCGAGCAG
CAGCGTATTCGCAATGAGCGGGAGAAGGAAGGCAGAACCCTGGCTGAAGAGAGGGCCCGGCGTGGAGG
AGGAGGAGAACAGGAGGAAGGCTGAGGATGAGGCCCGGAAGAAGAAGGCTCTGTCCAACATGATGCACTT
TGGAGGGTACATCCAGAAGCAAGCTCAGACAGAGCGGAAGAGTGGGAAGAGACAGACAGAGAGAGAGAAG
AAGAAGAAGATCCTGGCAGAGAGGAGGAAGGCGCTGGCCATCGACCACCTGAATGAAGACCAACTGAGAG
AGAAGGCCAAGGAGCTGTGGCAGAGTATCACAACTGGAGGCTGAGAAGTTCGACCTGCAGGAAAAGTT
CAAGCAGCAGAAAACGAAATCAACGTTCTCGAAAACCGGATCAATGACAACAGAAAAGTCTCCAAAAC
CGTGGGAAGGCCAAAGTCACCGGCGTTGGAAA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR223984 representing NM_001130180
 Red=Cloning site Green=Tags(s)

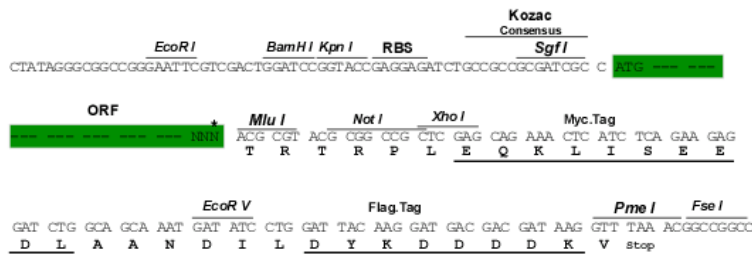
MSDAEEVVEEYEEEQEEQEEAVEEEEEAGGAEPEPEGEAEETEEANVEEVGPDEEAKDAEEGPVEDTKPKPS
 RLFMPNLVPPKIPDGERVDFDDIHRKRVEKDLNELQTLIEAHFENRKKEEELISLKDRIEKRAERAEQ
 QRIRNEREKERQNLAEERARREEEENRRKADEARKKKALSNMMHFGGYIQKQAQTERKSGKRQTEREK
 KKKILAEERRKALAIIDLHNLNEDQLREKAKELWQSIHNLEAEKFDLQEKFKQKQKYEINVLRRNRINDNQVSKT
 RGKAKVTGRWK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001130180

ORF Size: 873 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_001130180.2](#), [NP_001123652.1](#)

RefSeq Size: 1169 bp

RefSeq ORF: 876 bp

Locus ID: 21956

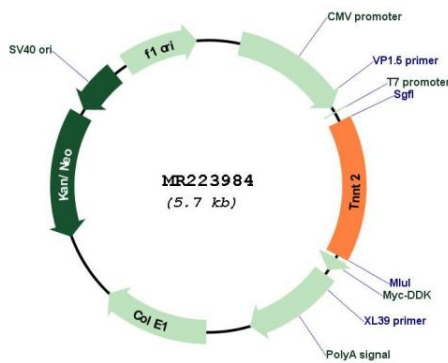
UniProt ID: [P50752](#)

Cytogenetics: 1 59.32 cM

MW: 35 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 MR223984