

Product datasheet for MR223331

Tnnt2 (NM_001130179) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tnnt2 (NM_001130179) 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:	>MR223331 representing NM_001130179 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCTGCCCTCAGCCAGTCCCTGCTGAGGCTGAACAGATACCTCAAGACCTGTGTGCAGTCCCTGTTC
AGAGAGCCGAGAGCATGTCTGACGCCGAGGAGGTGGTGGAGGAGTACGAGGAGGAACAGGAAGAAGCTGT
GGAAGAGCAAGAGGAGGCAGTGGAGGAGGAGGCTGGTGGGGCTGAACCTGAGCCTGAGGGTGAAGCT
GAGACAGAGGAGGCCAACGTAGAAGAGGTTGGTCTGATGAAGAAGCCAAAGATGCTGAAGAAGGTCAG
TAGAGGACACCAACCAAGCCAGCAGGCTCTTCATGCCCAACTGGTGCCACCAAGATCCCCGATGG
AGAGAGAGTGGACTTTGATGACATCCACAGGAAGCGCGTGGAGAAGGACCTGAATGAGCTACAGACTCTG
ATCGAGGCTCACTTCGAGAACAGGAAGAAGGAGGAAGAGGAGCTGATTTCCCTCAAAGACAGGATCGAAA
AGCGTCGGGCAGAGCGGGCCGAGCAGCAGCGTATTGCAATGAGCGGGAGAAGGAAGGCAGAACCAGCT
GGCTGAAGAGAGGGCCCGCGTGAAGGAGGAGGAGAAGCAGGAGGAAGGCTGAGGATGAGGCCCGGAAGAAG
AAGGCTCTGTCCAACATGATGCACTTTGGAGGGTACATCCAGAAGCAAGCTCAGACAGAGCGGAAGAGTG
GGAAGAGACAGACAGAGAGAGAAGAAGAAGAAGATCCTGGCAGAGAGGAGGAAGGCGCTGGCCATCGA
CCACCTGAATGAAGACCAACTGAGAGAGAAGGCCAAGGAGCTGTGGCAGAGTATTCAACCTGGAGGCT
GAGAAGTTCGACTGCAGGAAAAGTTCAAGCAGCAGAAATACGAAATCAACGTTCTCGGAAACCGGATCA
ATGACAACCAGAAAGTCTCCAAAACCTCGTGGGAAGGCCAAAGTCAACCGGCGTTGGAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR223331 representing NM_001130179
Red=Cloning site Green=Tags(s)

MPCPQPVAEAEQIPQDLCAVPVQRAESMSDAEEVVVEEYEEEEQEEAVEEQEEAVEEEEEAGGAPEPEGEA
 ETEEANVEEVGPDEEAKDAEEGPVEDTKPKPSRLFMPNLVPPKIPDGERVDFDDIHRKRVEKDLNELQTL
 IEAHFENRKKEEELISLKDRIEKRAERAEEQQIRNEREKERQNRLAEEERARREEEENRRKADEARKK
 KALSMMHFGGYIQKQAQTERKSGKRQTEREKKKKILAERRKALAIIDLHNLNEDQLREKAKELWQSIHNLEA
 EKFDLQEKFKQKYEINVLNRNRINDNQVSKTRGKAKVTGRWK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9045_e08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001130179

ORF Size: 969 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_001130179.2](#), [NP_001123651.4](#)

RefSeq Size: 1177 bp

RefSeq ORF: 972 bp

Locus ID: 21956

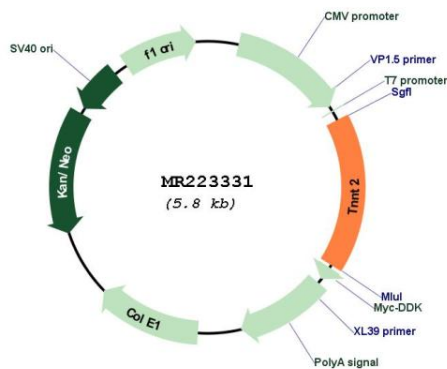
UniProt ID: [P50752](#)

Cytogenetics: 1 59.32 cM

MW: 38.4 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 MR223331