

## Product datasheet for **RR203928**

### Tnnt2 (NM\_012676) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tnnt2 (NM_012676) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tnnt2
Synonyms:	Ctt; CTTG; RATCTTG; Tnnt3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR203928 representing NM_012676 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTGACGCCGAGGAAGAGGTGGTGGAGTACGAGGAGGAACAGGAAGAGGAAGACTGGAGCGAAGAAG  
AGGAAGACGAGCAAGAGGAGGCAGTGGAGGAGGAGGATGGTGGAGCCGAGCCTGATCCCGAGGGTGAGGC  
AGAGGCAGAGGAGGACAAGGCAGAAGAGGTTGGTCTGATGAAGAAGCCAGAGATGCTGAAGATGGTCCA  
GTAGAGGACTCCAAACCAAGCCAGCAGGCTTTCATGCCCACTTGGTGCCACCCAAGATCCCTGACG  
GAGAGAGAGTGGACTTTGATGACATCCACAGGAAGCGCATGGAGAAGGACCTGAACGAGCTGCAGACTCT  
GATCGAGGCTCACTTCGAGAACAGGAAGAAGGAGGAAGAGGAGCTCATTTCTCTCAAAGACAGGATCGAA  
AAGCGTCGGGCAGAGCGGGCTGAACAGCAGCGTATTTCGCAATGAACGAGAGAAGGAAAGGCAGAACCGCC  
TGGCTGAAGAGAGGGCCCGGCGTGAGGAGGAGGAGAACAGGAGGAAGGCTGAAGATGAGGCCCGGAAGAA  
GAAGGCTCTGTCCAACATGATGCATTTTGGAGGGTACATCCAGAAGGCTCAGACAGAGCGGAAGAGTGGG  
AAGAGACAGACAGAGCGAGAGAAGAAGAAGATTCTGGCAGAGAGGAGGAAGGTGCTGGCCATCGACC  
ACCTGAATGAAGACCAGCTGAGAGAGAAGGCCAAGGAGCTATGGCAGAGTATCCACAACCTAGAGGCCGA  
GAAGTTCGACCTGCAGGAAAAGTTCAAGCAGCAGAAATATGAAATCAACGTTCTGCGAAAACAGGATCAAC  
GACAACCAGAAAGTCTCCAAAACCTCGTGGGAAGGCCAAAGTCACCGGGCGTTGAAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR203928 representing NM\_012676  
Red=Cloning site Green=Tags(s)

MSDAEEEEVVEEEEEQEEEDWSEEEEEDEQEEAVEEEEDGEAEPDPEGEAAEEDKAEVGPDEEARDADGP  
VEDSKPKPSRLFMPNLVPPKIPDGERVDFDDIHRKRMEKDLNELQTLIEAHFENRKKEEELISLKDRIE  
KRAERAEEQQIRNREKERQNRLAEEERARREEENRRKAEDARKKKKALSNMMHFGGYIQKAQTERKSG  
KRQTEREKKKKILAERRKVLAIIDLHNLNEDQLREKAKELWQSIHNLEAEKFDLQEKFKQQKYEINVLNRIN  
DNQKVSKTRGKAKVTGRWK

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\_012676

**ORF Size:** 897 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\\_012676.1](#), [NP\\_036808.1](#)

**RefSeq Size:** 1096 bp

**RefSeq ORF:** 900 bp

**Locus ID:** 24837

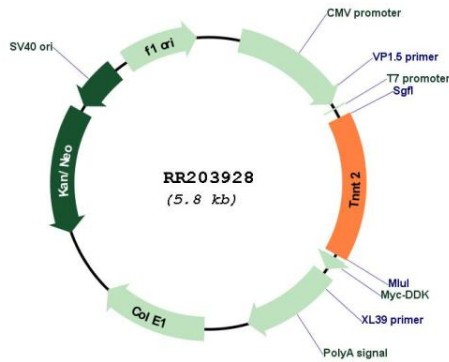
**UniProt ID:** [P50753](#)

**Cytogenetics:** 13q13

**MW:** 35.7 kDa

**Gene Summary:** tropomyosin-binding subunit of troponin; confers calcium-sensitivity to actinomysin ATPase activity in striated muscle [RGD, Feb 2006]

**Product images:**



Circular map for RR203928