

Product datasheet for MR201266

Tnnc1 (NM_009393) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tnnc1 (NM_009393) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Tnnc1
Synonyms: A1874626; cTnC; cTnI; TnC; tncc
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR201266 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGATGACATCTACAAAGCTGCGGTAGAACAGTTGACAGAGGAGCAGAAGAATGAGTTCAAGGCTGCCT
 TTGATATCTTTGCTGGGCGGGAGGATGGCTGCATCAGCACCAAGGAGCTGGGCAAGGTGATGAGGAT
 GCTGGGCCAGAACCCACACCTGAGGAGCTGCAGGAGATGATTGACGAAGTAGACGAGGATGGCAGTGCC
 ACAGTGGACTTCGATGAGTTTCTTGTGATGATGGTTCGGTGCATGAAGGACGACAGCAAAGGGAAGTCTG
 AGGAGGAGCTGTCGGATCTTCCGCATGTTTGACAAAAACGCTGATGGCTACATTGACTTAGATGAGCT
 GAAGATGATGCTGCAGGCCACAGGTGAGACCATTACGGAAGATGACATTGAAGAGCTCATGAAGGACGGT
 GACAAGAACAACGATGGCCGAATTGACTATGACGAGTTCCTGGAATTCATGAAGGGTGTGGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201266 protein sequence
 Red=Cloning site Green=Tags(s)

MDDIYKAAVEQLTEEQNEFKAAFDIFVLGAEDGCISTKELGKVMRMLGQNPTPEELQEMIDEVDEDGSG
 TVDFDEFVMMVRCMKDDSKGKSEEELSDLFRMFDKNADGYIDLDELKMMLQATGETITEDDIEELMKDG
 DKNNDGRIDYDEFLEFMKGVE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



Cloning Scheme:


ACCN: NM_009393

ORF Size: 486 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_009393.3](#)

RefSeq Size: 703 bp

RefSeq ORF: 486 bp

Locus ID: 21924

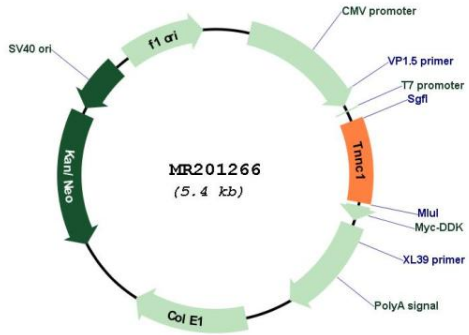
UniProt ID: [P19123](#)

Cytogenetics: 14 19.09 cM

MW: 18.4 kDa

Gene Summary: Troponin is the central regulatory protein of striated muscle contraction. Tn consists of three components: Tn-I which is the inhibitor of actomyosin ATPase, Tn-T which contains the binding site for tropomyosin and Tn-C. The binding of calcium to Tn-C abolishes the inhibitory action of Tn on actin filaments.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR201266