

## Product datasheet for **MG201266**

### Tnnc1 (NM\_009393) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tnnc1 (NM\_009393) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Tnnc1  
**Synonyms:** AI874626; cTnC; cTnI; TnC; tncc  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG201266 representing NM\_009393  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGATGACATCTACAAAGCTGCGGTAGAACAGTTGACAGAGGAGCAGAAGAATGAGTTCAAGGCTGCCT  
 TTGATATCTTTGCTCTGGGCGGGAGGATGGCTGCATCAGCACCAAGGAGCTGGGCAAGGTGATGAGGAT  
 GCTGGGCCAGAACCCACACCTGAGGAGCTGCAGGAGATGATTGACGAAGTAGACGAGGATGGCAGTGCC  
 ACAGTGGACTTCGATGAGTTTCTTGTTCATGATGGTTCCGGTGCATGAAGGACGACAGCAAAGGGAAGTCTG  
 AGGAGGAGCTGTCGGATCTCTCCGCATGTTTGACAAAAACGCTGATGGCTACATTGACTTAGATGAGCT  
 GAAGATGATGCTGCAGGCCACAGGTGAGACCATTACGGAAGATGACATTGAAGAGCTCATGAAGGACGGT  
 GACAAGAACAACGATGGCCGAATTGACTATGACGAGTTCCTGGAATTCATGAAGGGTGTGGAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG201266 representing NM\_009393  
 Red=Cloning site Green=Tags(s)

MDDIYKAAVEQLTEEQNEFKAAFDIFVLGAEDGCISTKELGKVMRMLGQNPTPEELQEMIDEVDEDGSG  
 TVDFDEFLLVMMVRCMKDDSKGKSEEELSDLFRMFDKNADGYIDLDELKMMLQATGETITEDDIEELMKDG  
 DKNNDGRIDYDEFLEFMKGVE

**TR**TRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

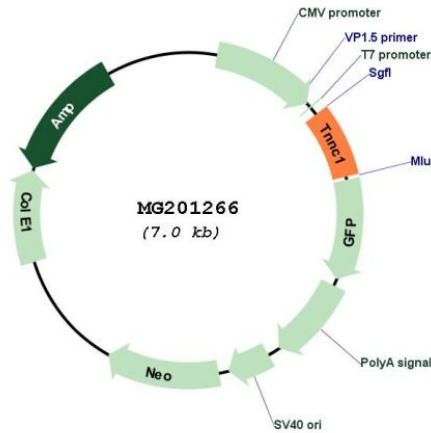


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_009393

ORF Size: 483 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_009393.3</a>
<b>RefSeq Size:</b>	703 bp
<b>RefSeq ORF:</b>	486 bp
<b>Locus ID:</b>	21924
<b>UniProt ID:</b>	<a href="#">P19123</a>
<b>Cytogenetics:</b>	14 19.09 cM
<b>Gene Summary:</b>	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]