

Product datasheet for **MG201248**

Tnnc2 (NM_009394) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tnnc2 (NM_009394) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Tnnc2
Synonyms: Tncs
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201248 representing NM_009394
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACGGACCAACAGGCTGAGGCCAGGTCTACCTCAGCGAGGAGATGATCGCTGAGTTCAAGGCTGCCT
 TTGACATGTTTCGATGCTGATGGCGGTGGGACATCAGCGTTAAAGAGTTGGGCACCGTGATGAGGATGCT
 AGGGCAGACACCCACAAAGAGGAATTGGATGCCATCATCGAGGAGGTGGACGAGGATGGCAGCGGTACT
 ATCGACTTTGAAGAGTTCTTGGTCATGATGGTGC GCCAGATGAAAGAGGATGCGAAGGGGAAGAGCGAAG
 AGGAAGTGGCTGAGTGTCTCCGCATCTTTGACAGGAACGCAGACGGCTACATTGATGCTGAGGAGCTAGC
 TGAGATTTTCCGGGCTTCTGGGGAGCATGTGACAGAAGAGGAGATCGAATCCCTGATGAAGGATGGTGTAT
 AAAACAACGACGGCCGATTGACTTTGATGAGTTTCTGAAGATGATGGAGGGCGTTTCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201248 representing NM_009394
 Red=Cloning site Green=Tags(s)

MTDQQAEARSYLSEEMIAEFKAAAFDMFDADGGDISVKELGTVMRMLGQTPKEELDAIIIEVEDEDSGT
 IDFEFLVMMVRQMKEDAKGKSEELAECEFRIFDRNADGYIDAEEELAEIFRASGEHVTEEEIESLMKDG
 KNNDGRIDFDEFKMMMEGVQ

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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:	<ol style="list-style-type: none">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:	<u>NM_009394.2, NP_033420.1</u>
RefSeq Size:	705 bp
RefSeq ORF:	483 bp
Locus ID:	21925
UniProt ID:	<u>P20801</u>
Cytogenetics:	2 H3
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]