

Product datasheet for **MG201648**

Tnni2 (NM_009405) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Tnni2 (NM_009405) Mouse Tagged ORF Clone
 Tag: TurboGFP
 Symbol: Tnni2
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-AC-GFP (PS100010)
 E. coli Selection: Ampicillin (100 ug/mL)
 ORF Nucleotide Sequence: >MG201648 representing NM_009405
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGAGATGAGGAGAAGCGCAACAGGGCCATCACGGCCCGGAGACAGCACCTGAAGAGTGTGATGCTCC
 AGATAGCGGCCACAGAGCTGGAGAAAGAGGAAAGCCGCCGAGAATCTGAGAAGGAGAACCTACCTGTCAGA
 ACCTGCCCGCCACTGCACATCCCAGGCTCCATGTCTGAAGTGCAGGAACCTGCAAACAACTGCATGCC
 AAGATCGACGTGGCTGAAGAGGAGAAAATGACATGGAGGTGAAGGTGCAGAAGAGCAGCAAGGAGCTGG
 AAGACATGAACCAAGCTATTTGACCTGAGGGCAAGTTCAAGAGGCCCCCACTTCGGAGGGTGCATG
 GTCTGCCGACCCATGCTGAAGGCGCTGCTGGGCTCTAAGCACAAAGGTGTGCATGGACCTGAGGGCCAAC
 CTGAAGCAGGTCAAGAAGGAAGACACTGAGAAGGAACGGGACCTGCGTGACGTGGGTGACTGGAGGAAGA
 ATATTGAGGAGAAGTCTGGCATGGAGGGCCGGAAGAAAATGTTTCGAGTCTGAGTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201648 representing NM_009405
 Red=Cloning site Green=Tags(s)

MGDEEKRNRITARRQHLKSVMLQIAATELEKEESRRESEKENYLSEHCPPLHIPGSMSEVQELCKQLHA
 KIDVAEEEEKYDMEVKVQKSSKELEDMNQKLFDLRGKFKRPPRRVMSADAMKALLGSKHKVCMMDLRAN
 LKQVKKEDTEKERDLRDVGDWRKNIIEKSGMEGRKKMFESES

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

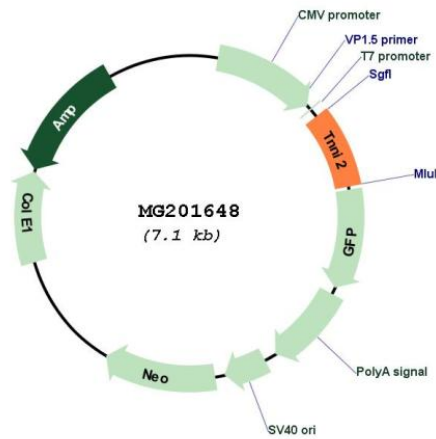


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Cloning Scheme:



Plasmid Map:



ACCN: NM_009405

ORF Size: 546 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:	<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_009405.3</u>
RefSeq Size:	667 bp
RefSeq ORF:	549 bp
Locus ID:	21953
UniProt ID:	<u>P13412</u>
Cytogenetics:	7 87.93 cM
Gene Summary:	Troponin I is the inhibitory subunit of troponin, the thin filament regulatory complex which confers calcium-sensitivity to striated muscle actomyosin ATPase activity.[UniProtKB/Swiss-Prot Function]