

Product datasheet for **MG221560**

Tnni1 (NM_021467) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tnni1 (NM_021467) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Tnni1
Synonyms: 2700018B22Rik; AI747285; ssTnl
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG221560 representing NM_021467
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCGGAAGTTGAGAGGAAATCCAAGTCACTGCCTCCCGTAACTCATGCTGAAGAGCCTGATGCTAG
 CCAAGGCCAAGGAGTGTGGGAGCAGGAACACGAGGAGCGAGAGGCTGAGAAGGTGCGTTACCTCTCGGA
 GCGCATCCCACACTGCAGACCCGTGGTCTGTCCCTCAGTGCCCTCAGGACTTGTGCCGAGAGCTCCAT
 GCCAAGGTGGAGGTGGTGGATGAGGAGCGCTATGATATTGAAGCCAAATGCCTCCACAACACCAGAGAGA
 TCAAGGACCTGAAGCTGAAGGTGCTGGACCTCCGTGGGAAGTTCAAGCGTCTCCCTGCGCCGGGTCCG
 TGTCTCAGCCGATGCCATGCTCCGAGCCCTACTGGGCTCTAAGCACAAGGTGTCATGGATCTGCGGGCC
 AACCTCAAGTCTGTGAAGAAAGAAGACACAGAAAAGGAGCGGCCAGTTCGAGGTAGGAGACTGGAGGAAGA
 ATGTGGAGGCTATGTCTGGCATGGAAGGCCGAAGAAGATGTTTCGACGCTGCTAAGTCCCGACCTCCCA
 G

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

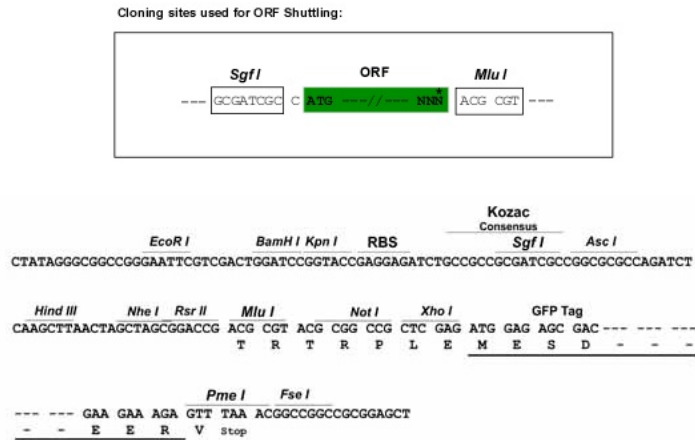
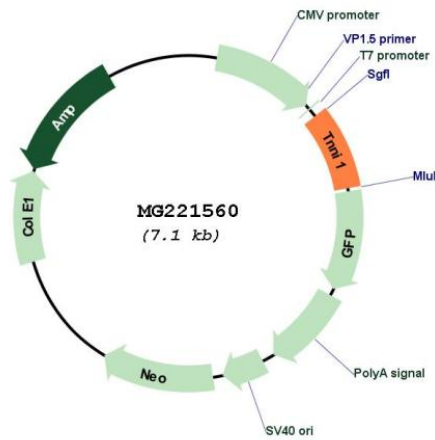
Protein Sequence: >MG221560 representing NM_021467
 Red=Cloning site Green=Tags(s)

MPEVERKSKITASRKLMLKSLMLAKAKECWEQEHEEREAEKVRYLSERIPTLQTRGLSLALQDLCRELH
 AKVEVVDEERYDIEAKCLHNTREIKDLKLVLDLRGKFKRPPLRRVRSADAMLRALLGSKHKVSMDLRA
 NLKSVKKEDEKERPVVEGDWRKNVEAMSGMEGRKKMFDAAKSPTSQ

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



Cloning Scheme:

Plasmid Map:


ACCN: NM_021467

ORF Size: 561 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_021467.4](#)

RefSeq Size: 1086 bp

RefSeq ORF: 564 bp

Locus ID: 21952

UniProt ID: [Q9WUZ5](#)

Cytogenetics: 1 59.28 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]