

Product datasheet for **MG224796**

Tnnt2 (NM_001130181) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Tnnt2 (NM_001130181) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Tnnt2 |
| Synonyms: | cTnT; Tnt |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG224796 representing NM_001130181 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCTGCCCTCAGCCAGTCCCTGCTGAGGCTGAACAGATACCTCAAGACCTGTGTGCAGTCCCTGTTC
AGAGAGCCGAGAGCATGTCTGACGCCGAGGAGGTGGTGGAGGAGTACGAGGAGGAACAGGAAGAGCAAGA
GGAGGCAGTGGAGGAGGAGGAGGCTGGTGGGGCTGAACCTGAGCCTGAGGGTGGAGCTGAGACAGAGGAG
GCCAACGTAGAAGAGTTGGTCTGATGAAGAAGCCAAAGATGCTGAAGAAGTCCAGTAGAGGACACCA
AACCCAAGCCCAGCAGGCTCTTCATGCCCAACTGGTGCCACCCAAGATCCCCGATGGAGAGAGAGTGGA
CTTTGATGACATCCACAGGAAGCGGTGGAGAAGGACCTGAATGAGCTACAGACTCTGATCGAGGCTCAC
TTCGAGAACAGGAAGAAGGAGGAAGAGGAGCTGATTTCCCTCAAAGACAGGATCGAAAAGCGTCGGGCAG
AGCGGGCCGAGCAGCAGCGTATTCGCAATGAGCGGGAGAAGGAAAGGCAGAACCCGCTGGCTGAAGAGAG
GGCCCCGGCGTGAGGAGGAGGAGAACAGGAGGAAGGCTGAGGATGAGGCCCGGAAGAAGAAGGCTCTGTCC
AACATGATGCACTTTGGAGGGTACATCCAGAAGCAAGCTCAGACAGAGCGGAAGAGTGGGAAGAGACAGA
CAGAGAGAGAGAAGAAGAAGATCCTGGCAGAGAGGAGGAAGGCGCTGGCCATCGACCACCTGAATGA
AGACCAACTGAGAGAGAAGGCCAAGGAGCTGTGGCAGAGTATTCACAACCTGGAGGCTGAGAAGTTGAC
CTGCAGGAAAAGTTCAAGCAGCAGAAATACGAAATCAACGTTCTGCGAAAACCGGATCAATGACAACCAGA
AAGTCTCCAAAACCTCGTGGGAAGGCCAAAGTCACCGGGCGTTGGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG224796 representing NM_001130181
 Red=Cloning site Green=Tags(s)

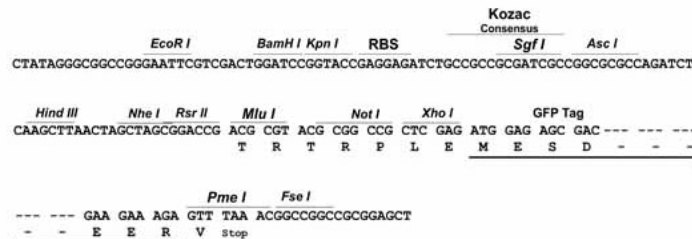
MPCPQVPAAEQIPQDLCAVPVQRAESMSDAEEVVVEEYEEEQEEQEEAVEEEEEAGGAEPEPEGEAETEE
 ANVEEVGPDEEAKDAEEGPDVETKPKPSRLFMPNLVPPKIPDGERVDFDDIHRKRVEKDLNELQTLIEAH
 FENRKKEEELISLKDRIEKRAERAQQRIRNEREKERQNLAEERARREEEENRRKAEDARKKALS
 NMMHFGGYIQKQAQTERKSGKRQTEREKKKKILAERRKALAIIDLNEDQLREKAKELWQSIHNLEAEKFD
 LQEKFKQKYEINVLNRINDNQKYSKTRGKAKVTGRWK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_001130181

ORF Size: 957 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_001130181.2](#), [NP_001123653.4](#)

RefSeq Size: 1165 bp

RefSeq ORF: 960 bp

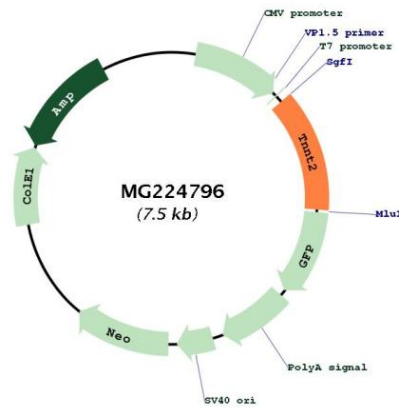
Locus ID: 21956

UniProt ID: [P50752](#)

Cytogenetics: 1 59.32 cM

Gene Summary: Troponin T is the tropomyosin-binding subunit of troponin, the thin filament regulatory complex which confers calcium-sensitivity to striated muscle actomyosin ATPase activity. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG224796