

Product datasheet for **MG224382**

Tnnt2 (NM_001130175) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tnnt2 (NM_001130175) 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:	>MG224382 representing NM_001130175 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCTGCCCTCAGCCAGTCCCTGCTGAGGCTGAACAGATACCTCAAGACCTGTGTGCAGTCCCTGTTC
AGAGAGCCGAGAGCATGTCTGACGCCGAGGAGGTGGTGGAGGAGTACGAGGAGGAACAGGAAGAAGCTGT
GGAAGAGGAAGACTGGAGTGAAGAAGAGGAGGACGAGCAAGAGGAGGCAGTGGAGGAGGAGGAGGCTGGT
GGGCTGAACCTGAGCCTGAGGGTGAAGGCTGAGACAGAGGAGGCCAACCTAGAAGAGTTGGTCTGATG
AAGAAGCCAAAGATGCTGAAGAAGTCCAGTAGAGGACACCAACCAAGCCAGCAGGCTCTTCATGCC
CAACTTGGTGCCACCCAAGATCCCCGATGGAGAGAGAGTGGACTTTGATGACATCCACAGGAAGCGCGTG
GAGAAGGACCTGAATGAGCTACAGACTCTGATCGAGGCTCACTTCGAGAACAGGAAGAAGGAGGAAGAGG
AGCTGATTTCCCTCAAAGACAGGATCGAAAAGCGTCGGGCAGAGCGGGCCGAGCAGCAGCGTATTCGCAA
TGAGCGGGAGAAGGAAAGGCAGAACCGCTGGCTGAAGAGAGGGCCCGCGTGAGGAGGAGGAGAACAGG
AGGAAGGCTGAGGATGAGGCCGGAAGAAGAAGGCTCTGTCCAACATGATGCACTTTGGAGGGTACATCC
AGAAGACAGAGCGGAAGAGTGGGAAGAGACAGACAGAGAGAGAGAAGAAGAAGAAGTCTTGGCAGAGAG
GAGGAAGGCGCTGGCCATCGACCACCTGAATGAAGACCAACTGAGAGAGAAGGCCAAGGAGCTGTGGCAG
AGTATTCACAACCTGGAGGCTGAGAAGTTCGACCTGCAGGAAAAGTTCAAGCAGCAGAAATACGAAATCA
ACGTTCTGCGAAAACCGGATCAATGACAACCAGAAAGTCTCCAAAACCTCGTGGGAAGGCCAAAGTCACCGG
GCGTTGAAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG224382 representing NM_001130175
 Red=Cloning site Green=Tags(s)

MPCQPVPAAEQIPQDLCAVPVQRAESMSDAEEVVVEEYEEEQEEAVEEEDWSEEEEDQEVEAVEEEAG
 GAPEPEGEAE TEEANVEEVGPDEEAKDAEEGVEDTKPKPSRLFMPNLVPPKIPDGERVDFDDIHRKRV
 EKDLNELQTLIEAHFENRKKEEELISLKDRIEKRAERAQQRI RNEREKERQNRLAEERARREEENR
 RKAEDEARKKKALSMMHFGGYIQKTERKSGKRQTEREKKKKILAERRKALAIIDLHNLNEDQLREKAKELWQ
 SIHNLEAEKFDLQEKFKQKYEINVLNRNRINDNQKVS KTRGKAKVTGRWK

TRTRPLE - GFP Tag - V

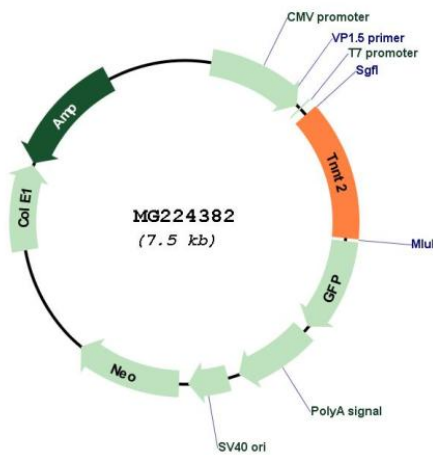
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001130175

ORF Size: 990 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	NM_001130175.2 , NP_001123647.4
RefSeq Size:	1198 bp
RefSeq ORF:	993 bp
Locus ID:	21956
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]