

Product datasheet for **MR202282**

Tnni3 (NM_009406) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tnni3 (NM_009406) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Tnni3
Synonyms: cTnl; Tn1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR202282 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGATGAGAGCAGCGATGCGGCTGGGAACCGCAGCCTGCGCCTGCTCCTGTCCGACGCCGCTCCT
CTGCCAACTACCGAGCCTATGCCACCGAGCCACACGCCAAGAAAAAGTCTAAGATCTCCGCCTCCAGAAA
ACTTCAGTTGAAGACTCTGATGCTGCAGATTGCCAAGCAGGAGATGGAACGAGAGGCAGAAGAGCGACGT
GGAGAGAAGGGGCGGTTCTGAGGACTCGTTGCCAGCCTTTGGAGTTGGATGGGCTGGGCTTTGAAGAGC
TTCAGGACTTATGCCGACAGCTTCACGCTCGGGTGGACAAAGTGGATGAAGAGAGATATGACGTGGAAGC
AAAAGTCACCAAGAACATCACTGAGATTGCAGATCTGACCCAGAAGATCTATGACCTCCGTGGCAAGTTT
AAGCGGCCACCCCTCCGAAGAGTGAGGATCTCTGCAGATGCCATGATGCAGGCGCTGCTGGGACCCGGG
CCAAGGAATCCTTGGACCTGAGGGCCACCTCAAGCAGGTGAAGAAGGAGGACATTGAGAAGGAAAACCG
GGAGGTGGGAGACTGGCGCAAGAATATCGATGCACTGAGTGGCATGGAAGGCCGCAAGAAAAAGTTTGAG
GGC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202282 protein sequence
Red=Cloning site Green=Tags(s)

MADESSDAAGEPQPAPAPVRRRSSANYRAYATEPHAKKKKISASRKLQLKTLMLQIAKQEMERAEERR
 GEKGRVLRTRCQPLELDGLGFEELQDLCRQLHARVDKVDVEERYDVEAKVTKNITEIADLTQKIYDLRGKF
 KRPTLRRVRIADAMMQALLGTRAKESLDLRAHLKQVKKEDIEKENREVDWRKNIDALSGMEGRKKKFF
 G

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_009406

ORF Size: 633 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_009406.4](#)

RefSeq Size: 854 bp

RefSeq ORF: 636 bp

Locus ID: 21954

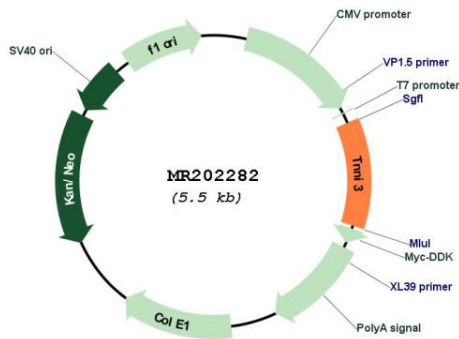
UniProt ID: [P48787](#)

Cytogenetics: 7 2.61 cM

MW: 24.3 kDa

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]

Product images:



Circular map for MR202282