

Product datasheet for **RG202754**

Troponin C (TNNC2) (NM_003279) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Troponin C (TNNC2) (NM_003279) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: Troponin C
Synonyms: CFAP85; FAP85
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG202754 representing NM_003279
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACGGACCAGCAGGCTGAGGCCAGGTCTACCTCAGCGAAGAGATGATCGCTGAGTTC AAGGCTGCCT
TTGACATGTTTGATGCTGATGGTGGTGGGGACATCAGCGTCAAGGAGTTGGGCACGGTATGAGGATGCT
GGGCCAGACACCCACCAAGGAGGAGCTGGACGCCATCATCGAGGAGGTGGATGAGGACGGCAGCGGCACC
ATCGACTTCGAGGAGTTCTTGGTCATGATGGTGC GCCAGATGAAAGAGGACGCGAAAGGGAAGAGCGAGG
AGGAGCTGGCCGAGTGCTTCCGCATCTTCGACAGGAATGCAGACGGCTACATCGACCCGGAGGAGCTGGC
TGAGATTTTCAGGGCCTCCGGGGAGCACGTGACTGACGAGGAGATCGAATCTCTGATGAAAGACGGCGAC
AAGAACAACGACGGCCGATTGACTTCGACGAGTCTGAAGATGATGGAGGGCGTGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202754 representing NM_003279
Red=Cloning site Green=Tags(s)

MTDQQAEARSYLSEEMIAEFKAAAFDMFDADGGDISVKELGTVMRMLGQTPKELDAIIIEVDEDGSGT
IDFEEFLVMMVRQMKEDAKGKSEELAEFRIFDRNADGYIDPEELAEIFRASGEHVTDDEEIESLMKDG
KNNDGRIDFDEFKMMMEGVQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_003279

ORF Size: 480 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_003279.1](#)

RefSeq Size: 698 bp

RefSeq ORF: 483 bp

Locus ID: 7125

UniProt ID: [P02585](#)

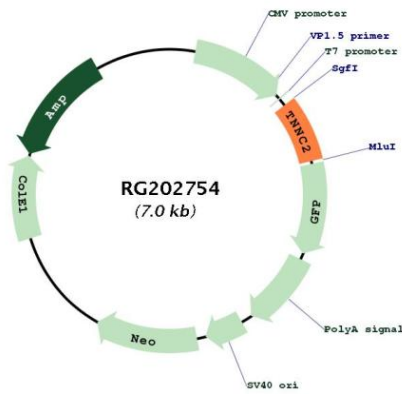
Cytogenetics: 20q13.12

Domains: EFh

Protein Pathways: Calcium signaling pathway

Gene Summary: Troponin (Tn), a key protein complex in the regulation of striated muscle contraction, is composed of 3 subunits. The Tn-I subunit inhibits actomyosin ATPase, the Tn-T subunit binds tropomyosin and Tn-C, while the Tn-C subunit binds calcium and overcomes the inhibitory action of the troponin complex on actin filaments. The protein encoded by this gene is the Tn-C subunit. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG202754