

# Product datasheet for MG201248

## Tnnc2 (NM\_009394) Mouse Tagged ORF Clone

## **Product data:**

#### OriGene Technologies, Inc.

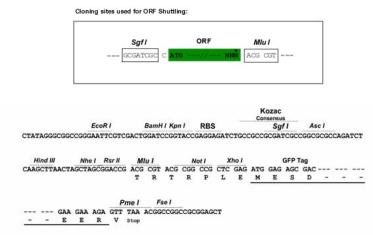
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Product Type:	Expression Plasmids
Product Name:	Tnnc2 (NM_009394) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tnnc2
Synonyms:	Tncs
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;MG201248 representing NM_009394 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGACGGACCAACAGGCTGAGGCCAGGTCCTACCTCAGCGAGGAGATGATCGCTGAGTTCAAGGCTGCCT TTGACATGTTCGATGCTGATGGCGGTGGGGGACATCAGCGTTAAAGAGTTGGGCACCGTGATGAGGATGCT AGGGCAGACACCCACCAAAGAGGAATTGGATGCCATCATCGAGGAGGTGGACGAGGATGGCAGCGGTACT ATCGACTTTGAAGAGTTCTTGGTCATGATGGTGCGCCAGATGAAAGAGGGATGCGAAGGGGAAGAGCGAAG AGGAACTGGCTGAGTGCTTCCGCATCTTTGACAGGAACGCAGACGGCTACATTGATGCTGAGGAGCGAAG TGAGATTTTCCGGGCTTCTGGGGAGCATGTGACAGAAGAGGAGACCGAATCGCATGAAGGATGGTGAT AAAAACAACGACGGCCGCATTGACTTTGATGATGATGAGGATGCTCAG
	ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA
Protein Sequence:	<pre>&gt;MG201248 representing NM_009394 Red=Cloning site Green=Tags(s)</pre>
	MTDQQAEARSYLSEEMIAEFKAAFDMFDADGGGDISVKELGTVMRMLGQTPTKEELDAIIEEVDEDGSGT IDFEEFLVMMVRQMKEDAKGKSEEELAECFRIFDRNADGYIDAEELAEIFRASGEHVTEEEIESLMKDGD KNNDGRIDFDEFLKMMEGVQ
	TRTRPLE - GFP Tag - V
Restriction Sites:	Sgfl-Mlul

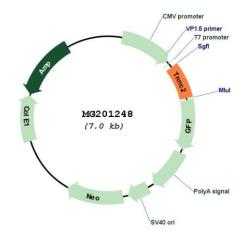


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### **Cloning Scheme:**



#### Plasmid Map:



ACCN:	NM_009394
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. <u>More info</u>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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ORIGENE Tnnc2 (NM_009394) Mouse Tagged ORF Clone – MG201248	
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> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
RefSeq:	<u>NM 009394.2, NP 033420.1</u>
RefSeq Size:	705 bp
RefSeq ORF:	483 bp
Locus ID:	21925
UniProt ID:	<u>P20801</u>
Cytogenetics:	2 H3
Gene Summary:	Troponin is the central regulatory protein of striated muscle contraction. Tn consists of three components: Tn-I which is the inhibitor of actomyosin ATPase, Tn-T which contains the binding site for tropomyosin and Tn-C. The binding of calcium to Tn-C abolishes the inhibitory action of Tn on actin filaments.[UniProtKB/Swiss-Prot Function]

~ \$1/-

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