

OriGene Technologies, Inc.

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Product datasheet for RG205676

Troponin I fast skeletal muscle (TNNI2) (NM_003282) Human Tagged ORF Clone

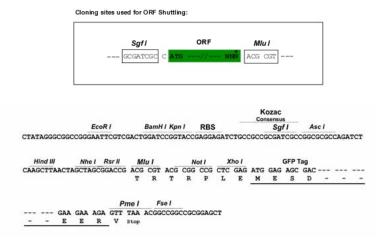
Product data:

Product Type:	Expression Plasmids
Product Name:	Troponin I fast skeletal muscle (TNNI2) (NM_003282) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Troponin I fast skeletal muscle
Synonyms:	AMCD2B; DA2B; DA2B1; FSSV; fsTnl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	<pre>>RG205676 representing NM_003282 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGGAGATGAGGAGAAGCGGAACAGGGCCATCACGGCCCGCAGGCAG
Protein Sequence:	<pre>>RG205676 representing NM_003282 Red=Cloning site Green=Tags(s)</pre>
	MGDEEKRNRAITARRQHLKSVMLQIAATELEKEESRREAEKQNYLAEHCPPLHIPGSMSEVQELCKQLHA KIDAAEEEKYDMEVRVQKTSKELEDMNQKLFDLRGKFKRPPLRRVRMSADAMLKALLGSKHKVCMDLRAN LKQVKKEDTEKERDLRDVGDWRKNIEEKSGMEGRKKMFESES
	TRTRPLE - GFP Tag - V
Restriction Sites:	Sgfl-Mlul



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Cloning Scheme:

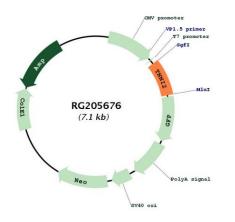


ACCN:	NM_003282
ORF Size:	546 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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.
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 003282.1</u>
RefSeq Size:	700 bp
RefSeq ORF:	549 bp
Locus ID:	7136
UniProt ID:	<u>P48788</u>

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	Troponin I fast skeletal muscle (TNNI2) (NM_003282) Human Tagged ORF Clone – RG205676
Cytogenetics:	11p15.5
Domains:	Troponin
Gene Summary:	This gene encodes a fast-twitch skeletal muscle protein, a member of the troponin I gene family, and a component of the troponin complex including troponin T, troponin C and troponin I subunits. The troponin complex, along with tropomyosin, is responsible for the calcium-dependent regulation of striated muscle contraction. Mouse studies show that this component is also present in vascular smooth muscle and may play a role in regulation of smooth muscle function. In addition to muscle tissues, this protein is found in corneal epithelium, cartilage where it is an inhibitor of angiogenesis to inhibit tumor growth and metastasis, and mammary gland where it functions as a co-activator of estrogen receptor- related receptor alpha. This protein also suppresses tumor growth in human ovarian carcinoma. Mutations in this gene cause myopathy and distal arthrogryposis type 2B. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Mar 2009]

Product images:



Circular map for RG205676

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