

Product datasheet for RG236913

TPM1 (NM 001301289) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: TPM1 (NM_001301289) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: TPM1

Synonyms: C15orf13; CMD1Y; CMH3; HEL-S-265; HTM-alpha; LVNC9; TMSA

Mammalian Cell

Selection:

Neomycin

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG236913 representing NM_001301289.
Sequence: Blue=ORF Red=Cloning site Green=Tag(s)

GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

AACCTTAGTATGCATCAGATGCTGGATCAGACTTTACTGGAGTTAAACAACATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

TPM1 (NM_001301289) Human Tagged ORF Clone - RG236913

Protein Sequence: >Peptide sequence encoded by RG236913

Blue=ORF Red=Cloning site Green=Tag(s)

MAGSSSLEAVRRKIRSLQEQADAAEERAGTLQRELDHERKLRETAEADVASLNRRIQLVEEELDRAQER LATALQKLEEAEKAADESERGMKVIESRAQKDEEKMEIQEIQLKEAKHIAEDADRKYEEVARKLVIIES DLERAEERAELSEGKCAELEEELKTVTNNLKSLEAQAEKYSQKEDRYEEEIKVLSDKLKEAETRAEFAE RSVTKLEKSIDDLEEKVAHAKEENLSMHQMLDQTLLELNNM

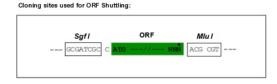
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA

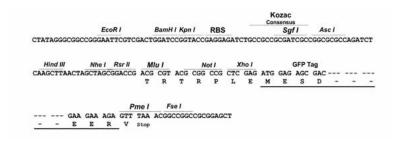
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





ACCN: NM_001301289

ORF Size: 744 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).

RefSeq: <u>NM 001301289.2</u>

RefSeq Size: 1629 bp RefSeq ORF: 747 bp



Locus ID: 7168

Cytogenetics: 15q22.2

Protein Families: Druggable Genome

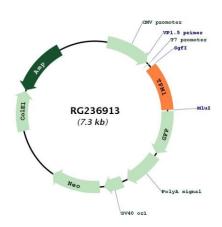
Protein Pathways: Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM)

MW: 29.1 kDa

Gene Summary: This gene is a member of the tropomyosin family of highly conserved, widely distributed

actin-binding proteins involved in the contractile system of striated and smooth muscles and the cytoskeleton of non-muscle cells. Tropomyosin is composed of two alpha-helical chains arranged as a coiled-coil. It is polymerized end to end along the two grooves of actin filaments and provides stability to the filaments. The encoded protein is one type of alpha helical chain that forms the predominant tropomyosin of striated muscle, where it also functions in association with the troponin complex to regulate the calcium-dependent interaction of actin and myosin during muscle contraction. In smooth muscle and non-muscle cells, alternatively spliced transcript variants encoding a range of isoforms have been described. Mutations in this gene are associated with type 3 familial hypertrophic cardiomyopathy. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG236913