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Product datasheet for MC210193

Tpm3 (NM_022314) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tpm3 (NM_022314) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tpm3
Synonyms:	gamma-TM; hTM30nm; hTMnm; Tm5NM; TM30nm; TMnm; Tpm-5; Tpm5; Trop-5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC210193 representing NM_022314 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGATGGAGGCCATCAAGAAAAAGATGCAGATGCTGAAGTTAGACAAAGAGAATGTTCTGGACCGAGCTG AGCAAGCTGAAGCTGAGCAGAAACAGGCAGAAGAAAGAAGCAAGCAGCTAGAGGATGAACTAGCAACCAT GCAGAAGAAGCTGAAAGGGACAGAGGATGAGCTGGACAAGTATTCGGAAGCTTTAAAGGATGCTCAGGAG AAGCTGGAGCTAGCAGAGAAGAAGGCAGCCGACGCTGAAGCTGAGGTGGCCTCCTTGAACCGCAGGATCC AGCTGGTTGAAGAGGAGCTGGACCGTGCGCAGGAGCGCCTTGCCACTGCTTTGCAGAAGCTGGAGGAAGC AGAGAAGGCTGCTGATGAGAGTGAGAGAGGTATGAAGGTGATTGAAAATCGGGCTCTAAAAGATGAAGAA AAGATGGAACTCCAGGAAATCCAGCTAAAGGAAGCAAAGCACATTGCAGAAGAGGCCGATAGGAAGTATG AAGAGGTGGCTCGTAAGTTGGTGATTATTGAAGGAGACTTGGAACGCACGGAGGAACGTGCTGAGCTGGC AGAGTCCCGTTGCCGAGAGATGGATGAACAGATCAGACTGATGGACCAGAACCTGAAGTGTCTGAGTGCT GCTGAAGAAAAGTACTCTCAAAAAGAAGACAAGTATGAAGAAGAAATAAAGATTCTTACTGATAAACTCA AGGAGGCAGAGACCCGTGCTGAGTTTGCTGAAAGATCGGTAGCCAAGCTGGAGAAGACCATTGATGACCT GGAAGATAAACTGAAGTGCACCAAAGAGGAGCATCTCTGTACACAAAGGATGCTGGACCAGACCCTGCTG GACCTGAACGAGATGTAG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI
ACCN:	NM_022314
Insert Size:	858 bp

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OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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

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_022314.3, NP_071709.3

RefSeq Size: 2239 bp

RefSeq ORF: 858 bp

Locus ID: 59069

Cytogenetics: 3 F1

Gene Summary: Binds to actin filaments in muscle and non-muscle cells. Plays a central role, in association with the troponin complex, in the calcium dependent regulation of vertebrate striated muscle contraction. Smooth muscle contraction is regulated by interaction with caldesmon. In non-muscle cells is implicated in stabilizing cytoskeleton actin filaments.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1, also known as variant Tpm3.13) encodes isoform Tpm3.13cy (also known as isoform 1). This isoform is the same length as isoform Tpm3.12st, but contains a distinct C-terminal segment.