

Product datasheet for **MC226550**

Tpm3 (NM_001293749) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tpm3 (NM_001293749) Mouse Untagged Clone
Tag: Tag Free
Symbol: Tpm3
Synonyms: gamma-TM; hTM30nm; hTMnm; Tm5NM; TM30nm; TMnm; Tpm-5; Tpm5; Trop-5
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC226550 representing NM_001293749
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGGGACCACCACCATCGAGGCGGTAAAGCGCAAGATCCAGGTTCTGCAGCAGCAAGCTGATGATG
 CGGAGGAAAGGGCCGAGCGCCTCCAGCGGAAGTGGAGGGAGAAAGCGGGCCCGGAGCAGGCTGAAGC
 TGAGGTGGCCTCCTTGAACCGCAGGATCCAGCTGGTTGAAGAGGAGCTGGACCGTGCGCAGGAGCGCCTT
 GCCACTGCTTTGCAGAAGCTGGAGGAAGCAGAGAAGGCTGCTGATGAGAGTGAGAGAGGTATGAAGGTGA
 TTGAAAATCGGGCTCTAAAAGATGAAGAAAAGATGGAAGTCCAGGAAATCCAGCTAAAGGAAGCAAAGCA
 CATTGCAGAAGAGGCCGATAGGAAGTATGAAGAGGTGGCTCGTAAGTTGGTGATTATTGAAGGAGACTTG
 GAACGCACGGAGGAACGTGCTGAGCTGGCAGAGTCTAAGTGTCTGAGCTGGAGGAGGAGCTGAAGAATG
 TCACCAACAACCTCAAGTCTCTTGAGGCTCAGGCGGAGAAGTACTCTCAAAAAGAAGACAAGTATGAAGA
 AGAAATAAAGATTCTTACTGATAAACTCAAGGAGGCAGAGACCCGTGCTGAGTTTGTCTGAAAGATCGGTA
 GCCAAGCTGGAGAAGACCATTGATGACCTGGAAGAGCGTCTCTACAGCCAACCTTGAGCGAAACCCGCTGC
 TTTCTAATGAGCTGAAGCTAACGCTGCATGGTCTTTGTGACT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_001293749
Insert Size: 744 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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 style="list-style-type: none">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:	<u>NM_001293749.1, NP_001280678.1</u>
RefSeq Size:	1298 bp
RefSeq ORF:	744 bp
Locus ID:	59069
Cytogenetics:	3 F1
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (6, also known as variant Tpm3.4) represents the use of an alternate promoter, differs in the 5' and 3' structures and has multiple differences in the coding region compared to variant Tpm3.13. These differences cause translation initiation at an alternate start codon compared to variant Tpm3.13. The encoded isoform (Tpm3.4cy, also known as isoform 6) has distinct N- and C- termini and is shorter than isoform Tpm3.13cy.</p> <p>Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>