

## Product datasheet for **MC209573**

### Tpm1 (NM\_001164251) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tpm1 (NM\_001164251) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Tpm1  
**Synonyms:** AA986836; AI854628; alpha-TM; TM2; Tm3; Tmpa; Tpm-1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC209573 representing NM\_001164251  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACGCCATCAAGAAGAAGATGCAGATGCTGAAGCTCGACAAAGAGAACGCCTTGGATCGAGCTGAGC  
AAGCGGAGGCTGATAAGAAGCGCGGGAAGACCGGAGCAAGCAGCTGGAAGATGAGCTGGTGTCACTGCA  
AAAGAACTCAAGGGCACTGAAGATGAACTGGACAAATACTCCGAGGCTCTCAAAGATGCCCAGGAGAAA  
CTGGAGCTGGCGGAGAAAAGGCCACAGATGCTGAAGCTGACGTAGCTTCTCTGAACAGACGCATCCAGC  
TGGTTGAGGAGGAGTTGGATCGTGCTCAGGAGCGTCTGGCCACAGCTCTGCAGAAGCTGGAGGAGGCCGA  
GAAGGCTGCAGATGAGAGTGAGAGAGGCATGAAAGTCATTGAAAGCCGAGCCAAAAAGATGAAGAAAAG  
ATGGAGATTCAGGAGATCCAGCTGAAAGAGGCCAAGCACATTGCTGAAGATGCTGACCGGAAGTATGAAG  
AGGTGGCCCGTAAGCTGGTCATCATCGAGAGCGACCTGGAACGTGCAGAGGAGCGGGCTGAGCTCTCAGA  
AGGCCAAGTTCGACAGCTGGAAGAACAGTTAAGAATAATGGATCAGACCTTGAAGCATTAAATGGCTGCA  
GAGGATAAGTACTCTCAGAAGGAAGACAAATATGAAGAGGAGATCAAGTTCTCTCTGACAAGCTGAAGG  
AGGCTGAAACTCGGGCTGAGTTTGCAGAGAGATCAGTAACCAAATGGAGAAAAGCATTGATGACTTAGA  
AGACGAGCTGTATGCTCAGAAACTGAAGTACAAGGCCATCAGCGAGGAGCTGGACCACGCCTCAACGAT  
ATGACTTCCATATAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001164251  
**Insert Size:** 855 bp



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<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001164251.1, NP_001157723.1</u>
<b>RefSeq Size:</b>	1210 bp
<b>RefSeq ORF:</b>	855 bp
<b>Locus ID:</b>	22003
<b>Cytogenetics:</b>	9 36.27 cM
<b>Gene Summary:</b>	<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 (Tpm1.5, also known as variant 5) differs in the 3' UTR and coding sequence, lacks internal exon, and contains another alternate internal exon compared to variant Tpm1.6. The encoded isoform (Tpm1.5cy) is the same length but has short regions of sequence differences, compared to isoform Tpm1.6cy. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>