

Product datasheet for **MC209574**

Tpm1 (NM_001164253) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tpm1 (NM_001164253) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tpm1
Synonyms:	AA986836; AI854628; alpha-TM; TM2; Tm3; Tmpa; Tpm-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC209574 representing NM_001164253 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGGTAGCAGCTCGCTGGAGGCGGTGCGGAGAAAGATCCGGAGCCTGCAGGAGCAGGCGGATGCCG
CGGAGGAGCGTGCGGGCAGCCTGCAGCGCGAGCTGGACCAGGAGCGGAAGCTGCGGGAAACCGCTGAAGC
TGACGTAGCTTCTCTGAACAGACGCATCCAGCTGGTTGAGGAGGAGTTGGATCGTGCTCAGGAGCGTCTG
GCCACAGCTCTGCAGAAGCTGGAGGAGGCCGAGAAGGCTGCAGATGAGAGTGAGAGAGGCATGAAAGTCA
TTGAAAGCCGAGCCAAAAAGATGAAGAAAAGATGGAGATTGAGGAGATCCAGCTGAAAGAGGCCAAGCA
CATTGCTGAAGATGCTGACCGGAAGTATGAAGAGGTGGCCCGTAAGCTGGTCATCATCGAGAGCGACCTG
GAACGTGCAGAGGAGCGGGCTGAGCTCTCAGAAGGCCAAGTTCGACAGCTGGAAGAACAGTTAAGAATAA
TGGATCAGACCTTGAAAGCATTAAATGGCTGCAGAGGATAAGTACTCTCAGAAGGAAGACAAATATGAAGA
GGAGATCAAGTTCTCTCTGACAAGCTGAAGGAGGCTGAAACTCGGGCTGAGTTTGAGAGAGATCAGTA
ACCAAATTGGAGAAAAGCATTGATGACTTAGAAGAGAAAGTGGCCCATGCCAAAGAAGAAAACCTTAGTA
TGCACCAGATGCTGGATCAGACTTTACTGGAGCTAAACAACATG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001164253
Insert Size:	747 bp



[View online »](#)

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).
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001164253.1, NP_001157725.1</u>
RefSeq Size:	1675 bp
RefSeq ORF:	747 bp
Locus ID:	22003
Cytogenetics:	9 36.27 cM
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 (Tpm1.9, also known as variant 7) differs in the 5' UTR and coding sequence, lacks an alternate internal exon, and contains another alternate internal exon compared to variant Tpm1.6. The encoded isoform (Tpm1.9cy) has an alternate N-terminus, has a short internal region of sequence differences and is shorter, 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>