

## Product datasheet for **MC205972**

### **Tpm4 (NM\_001001491) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tpm4 (NM_001001491) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tpm4
Synonyms:	2610528G24Rik; Tpm4.2; Tpm4.2cy
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC023701  
 CCACGCGTCCGCCGAGCCAGCAGAACGAGTGAGCTATGGCCGGCCTCAACTACTGGAGGCAGTGAAG  
 CGCAAGATCCAGGCCCTGCAGCAGCAGGCAGACGACGCAGAGGATCGCGCGCAAGGCCTGCAGCGCGAAC  
 TGGATGGCGAGCGCAGCGGGCGGAGAAAGCTGAAGGAGATGCAGCCGCTCTCAACCGCCGCATCCAAC  
 GCTGGAGGAGAACTGGACCGGGCTCAGGAGCAGCTGGCCACAGCCCTGCAGAATCTGGAAGAGGCAGAG  
 AAGGCTGCTGATGAGAGTGAGAGAGGCATGAAGGTAATAGAGAACCGAGCCATGAAAGATGAGGAAAAGA  
 TGGAGATCCTGGAGATGCAGCTCAAAGAAGCCAAGCAGCAGTCACTGATGAAGCCGACCGCAAGTATGAGGA  
 GGTTGCTCGTAAGTTGGTCATCCTGGAGGGTGAAGTGAAGAGAGAGAGAGCGGGCGGAGGTATCTGAA  
 CTAAGTGTGGTGACCTGGAAGAAGAGCTCAAGAATGTAACCTAACAATCTGAAATCACTGGAGGCTGCTT  
 CTGAAAAGTATTCTGAAAAGGAGGATAAATATGAAGAAGAAATCAAGCTTCTGTCTGACAAGCTGAAGGA  
 GGCTGAGACCCGAGCTGAGTTTGCAGAAAGGACAGTTTCTAAACTGGAGAAGACAATCGATGACCTGGAA  
 GAAAACTTGCCAGGCCAAAGAAGAGAATGTGGGCTTACATCAGACACTGGACCAGACACTAAACGAAC  
 TTAAGTATATAAACTAAACAGAGAGTACTGTTTTAACCAACTCCACTCCAGAGAGTGTGCCCTG  
 TCTTCTCTTTTGAAGAAGTCCGCTTATTACCAGGTTTCCACCTTGCAGGAAATGCCAAGCAGATAAT  
 GAATTCATGACCAATATTTTGTGTTAGACAAGCTTTGAGCACCAGTTAAGTTTAAATCTTCTTTTCC  
 ATTCAAATGGCACCAGCTTCTCTGATTATCTTATTCTTAAATTGCATTTATTCCTAAAATAGGCAGGGA  
 ATTTACACTGAGTATAGTTGCTTAAGGCTGAGGGCATTGGTTCTTGGGAATTAGTCAGCCCCACACTT  
 TGAAGCACAGGCTCAAGTATCTAATTTTAGCTGGTTGCTGTTGGGGAAGTTTTGTGAGGCTAGGGGTGGT  
 CACAAGAAAATATGTGGAATTTTCCACCCAGAGCAAAAATTAACAGTCTCCTATGGGAAGTTATAAAGC  
 ACAACTAGATTAGCCTGATCACTGAGTCTGCCACATGGCCCTGTGCAGAACAGATTGTCTTTAAGC  
 ATTCGAAGCGAGAATGCTGGGGTATCATTGTTGCCATGTGCCTTCTGACTGAGCTTTAATGCTGTTCC  
 ATGTTACATCTTCTTCACTCCAGAATTGTTCTCTGAGGAGCAAGCGTCTTATTCAGGACTTTTCTGC  
 TGTGGTCAATGATATACCCAGCAGGGAATATGGCAGAGTCCAACCTTTTCAGCCAGGGCTATACGGCG  
 AAATCTGTCTCAAATAATAAAAAGGCTTAGTTGCCTTCAATACATTGAGCATTGTAATAATACCAAGTG  
 TTGGGCAACAAAAGTCTCTCCAGCAGCAAGTGTGATAGAAAAGAAATTGGCTTAACCTCATCTCCA  
 TTGTTCCAGGGAACAACAATGGAAGCTTGAAGTTGCAAGACTTGAATTCCTTCGGGAATGACACTAATA  
 AAAGACCAAGACCTCCTGATTGAACTGGATGTGGAGTGTCTGTAGGCTGCACATTTTTTGGCTTTGTAG  
 TTTTCTTTCTCAGTTAACATCTCACACTGAAACATTCCACATTCAGCAGTGCAGGGGCAACTCAAG  
 TTTACAGTCTGACTGAAAGTACCCTGCTTCTAGCTTATCTGAACCTGCCCTCACTCTATTTATTA  
 AGCATCACACTACCAGGGAGATGAAGTTGAGCAAACTGTGCAATTGATAAACTACTCTGTTCTTTAC  
 GTTCTTGCTATTGTATCATACGTAATAGTATCACTTTTTCTACATTTTGGTCAAATAAATTTTTGCATAA  
 ATAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_001001491

**Insert Size:** 747 bp

**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](mailto: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](#)

<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><a href="#">BC023701</a></u> , <u><a href="#">AAH23701</a></u>
<b>RefSeq Size:</b>	2118 bp
<b>RefSeq ORF:</b>	747 bp
<b>Locus ID:</b>	326618
<b>UniProt ID:</b>	<u><a href="#">Q6IRU2</a></u>
<b>Cytogenetics:</b>	8 B3.3
<b>Gene Summary:</b>	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. Binds calcium. [UniProtKB/Swiss-Prot Function]