

## Product datasheet for RN216139

## Tpm1 (NM\_001034074) Rat Untagged Clone

## **Product data:**

## OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	Tpm1 (NM_001034074) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Tpm1
Synonyms:	Alpha-tm; Tma2; Tmsa
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN216139 representing NM_001034074 Red=Cloning site Blue=ORF Orange=Stop codon
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGCGGGTAGCAGCTCGCTGGAGGCGGTGCGGAGAAAGATCCGGAGCCTGCAGGAACAGGCAGATGCCG CGGAGGAGCGTGCGGGCAGCCTGCAGCGAGAGCTGGACCAGGAGCGGAAGCTGCGGGAAACCGCTGAAGC TGACGTAGCATCTCTGAACAGACGCATCCAGCTGGTTGAGGAGGAGTGGATGCGCGCTCAGGAGCGTCTG GCCACAGCTCTACAGAAGCTGGAGGAGGCTGAGAAGGCTGCAGATGAGAGTGAGAGAGGCATGAAAGTCA TTGAAAGCCGAGCCCAAAAAGATGAAGAAAAGATGGAGATTCAGGAGATCCAGCTGAAAGAGGCCAAGCA CATTGCTGAAGATGCTGACCGAAAGTATGAAGAAAAGATGGAGATTCAGGAGATCCAGCTGAAAGAGGCCAAGCA CATTGCTGAAGATGCTGACCGAAAGTATGAAGAGGTGGCCCCGTAAGCTGGTCATCATCGAGAGGCGATCTG GAGCGTGCGGAGGAGAGGGCTGAGCTCTCGGAAGGCCAAGTTCGACAGCTGGAAGAACAGTTAAGAATAA TGGATCAGACCTTGAAAGCATTAATGGCTGCCAGAGGATAAGTACTCTCAGAAAGAA
	ACGCGTACGCGGCCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
<b>Restriction Sites:</b>	Sgfl-Mlul
ACCN:	NM_001034074
Insert Size:	747 bp



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Services Tom (NM_001034074) Rat Untagged Clone – RN216139	
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> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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>
RefSeq:	<u>NM 001034074.1, NP 001029246.1</u>
RefSeq Size:	1677 bp
RefSeq ORF:	747 bp
Locus ID:	24851
UniProt ID:	<u>P04692</u>
Cytogenetics:	8q24
Gene Summary:	This gene is a member of the tropomyosin family and encodes a protein that heterodimerizes with a beta subunit, binding actin in both muscle and nonmuscle cells. In both smooth and striated muscle cells, it plays a role in calcium dependent-regulation of muscle contraction. In nonmuscle cells, it stabilizes cytoskeleton actin filaments. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (Tpm1.9, also known as variant 8) has multiple differences in the coding region, compared to variant 1. These differences result in an isoform (Tpm1.9cy, also referred to as TM-5b) that is shorter and has distinct N- and C-termini compared to isoform a. Isoform Tpm1.9cy is the same length as isoforms Tpm1.8cy and Tpm1.13 but is the

product of alternate splicing and contains short regions of sequence differences.

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