

Product datasheet for RN216241

Tpm1 (NM_001034070) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Tpm1 (NM_001034070) Rat Untagged Clone

Tag: Tag Free
Symbol: Tpm1

Synonyms:Alpha-tm; Tma2; TmsaVector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

Cell Selection: Neomycin

Fully Sequenced ORF: >RN216241 representing NM_001034070

Red=Cloning site Blue=ORF Orange=Stop codon

 ${\tt TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC}$

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001034070

Insert Size: 855 bp



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Tpm1 (NM_001034070) Rat Untagged Clone - RN216241

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: 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: NM 001034070.1, NP 001029242.1

RefSeq Size: 1740 bp
RefSeq ORF: 855 bp
Locus ID: 24851
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 (Tpm1.7, also known as variant 3) has multiple differences in the coding region, compared to variant 1, resulting in a shorter protein (isoform Tpm1.7cy, also referred to as TM-3). Isoform Tpm1.7cy is the same length as isoforms Tpm1.6cy and Tpm1.3sm but is the product of alternate splicing and contains short regions of sequence

differences.