

## **Product datasheet for MR203134**

## Tpm4 (NM\_001001491) Mouse Tagged ORF Clone

## **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** Tpm4 (NM\_001001491) Mouse Tagged ORF Clone

Tag: Myc-DDK
Symbol: Tpm4

**Synonyms:** 2610528G24Rik; Tpm4.2; Tpm4.2cy

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >MR203134 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

TACATCAGACACTGGACCAGACACTAAACGAACTTAACTGTATA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR203134 protein sequence

Red=Cloning site Green=Tags(s)

MAGLNSLEAVKRKIQALQQQADDAEDRAQGLQRELDGERERREKAEGDAAALNRRIQLLEEELDRAQEQL ATALQNLEEAEKAADESERGMKVIENRAMKDEEKMEILEMQLKEAKHITDEADRKYEEVARKLVILEGEL KRAEERAEVSELKCGDLEEELKNVTNNLKSLEAASEKYSEKEDKYEEEIKLLSDKLKEAETRAEFAERTV SKLEKTIDDLEEKLAQAKEENVGLHQTLDQTLNELNCI

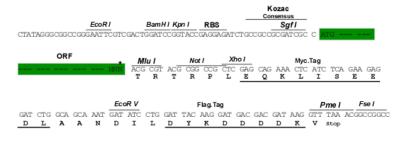
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** 

Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_001001491

ORF 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 <a href="mailto:customercom">customercom</a> 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

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.



**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: <u>NM 001001491.1</u>, <u>NP 001001491.1</u>

 RefSeq Size:
 2082 bp

 RefSeq ORF:
 747 bp

 Locus ID:
 326618

 UniProt ID:
 Q6IRU2

 Cytogenetics:
 8 B3.3

 MW:
 28.5 kDa

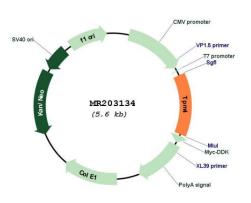
**Gene Summary:** Binds to actin filaments in muscle and non-muscle cells. Plays a central role, in association

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]

## **Product images:**



Circular map for MR203134