

Product datasheet for **MG203134**

Tpm4 (NM_001001491) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tpm4 (NM_001001491) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Tpm4
Synonyms: 2610528G24Rik; Tpm4.2; Tpm4.2cy
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG203134 representing NM_001001491
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGGCCTCAACTCACTGGAGGCAGTGAAGCGCAAGATCCAGGCCCTGCAGCAGCAGGCAGACGACG
CAGAGGATCGCGCGCAAGGCCTGCAGCGCGAACTGGATGGCGAGCGGAGCGCGGAGAAAGCTGAAGG
AGATGCAGCCGCTCTCAACCGCCGATCCAACCTGCTGGAGGAGGAAGTGGACCGGCTCAGGAGCAGCTG
GCCACAGCCCTGCAGAATCTGGAAGAGGCAGAGAAGGCTGCTGATGAGAGTGAGAGAGGCATGAAGGTAA
TAGAGAACCGAGCCATGAAAGATGAGGAAAAGATGGAGATCCTGGAGATGCAGCTCAAAGAAGCCAAGCA
CATCACTGATGAAGCCGACCGCAAGTATGAGGAGGTTGCTCGTAAGTTGGTCATCCTGGAGGGTGAGCTG
AAAAGAGCAGAGGAGCGGGCGGAGGTATCTGAACTAAAGTGTGGTGACCTGGAAGAAGAGCTCAAGAATG
TAACTAACAATCTGAAATCACTGGAGGCTGCTTCTGAAAAGTATTCTGAAAAGGAGGATAAATATGAAGA
AGAAATCAAGTTCTGTCTGACAAGCTGAAGGAGGCTGAGACCCGAGCTGAGTTTGCAGAAAAGGACAGTT
TCTAACTGGAGAAGACAATCGATGACCTGGAAGAAAACTTGCCAGGCCAAAGAAGAGAATGTGGGCT
TACATCAGACACTGGACCAGACACTAACGAACCTAACTGTATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203134 representing NM_001001491
Red=Cloning site Green=Tags(s)

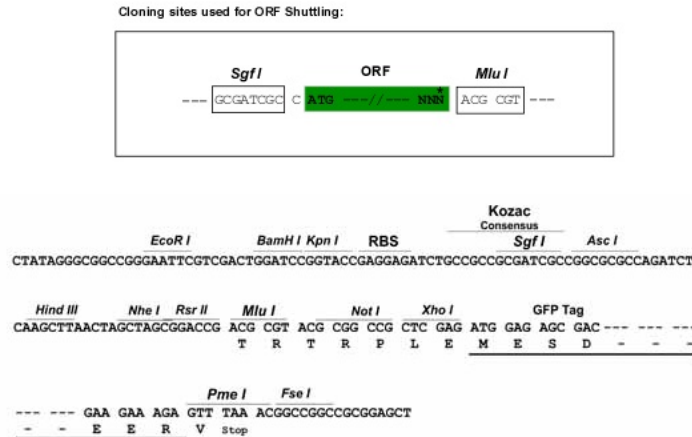
MAGLNSLEAVKRRKIQALQQADDAEDRAQGLQRELDGERERREKAEGDAAALNRRIQLLEELDRAQEQL
 ATALQNLEEAKEAADESERGMKVIENRAMKDEEKMEILEMQLKEAKHITDEADRYEEVARKLVILEGEL
 KRAEERAIEVSELKCGDLEELKNVTNNLKSLEAASEKYEKEDKYEIEIKLLSDKLKEAETRAEFAERTV
 SKLEKTIDDLLEEKLAQAKEENVGLHQTLDQTLNELNCI

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2193_e03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001001491

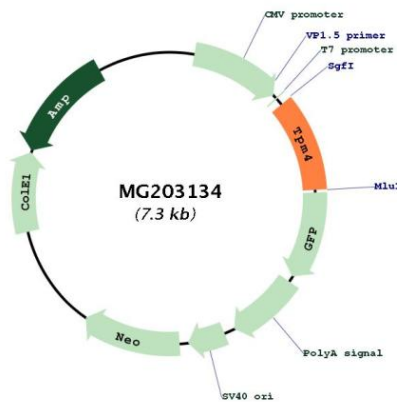
ORF Size: 744 bp

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 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:	<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.
RefSeq:	<u>NM_001001491.1, NP_001001491.1</u>
RefSeq Size:	2082 bp
RefSeq ORF:	747 bp
Locus ID:	326618
UniProt ID:	<u>Q6IRU2</u>
Cytogenetics:	8 B3.3
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. Binds calcium.</p> <p>[UniProtKB/Swiss-Prot Function]</p>

Product images:


Circular map for MG203134