

## Product datasheet for **MG224519**

### Tpm2 (NM\_009416) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tpm2 (NM\_009416) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Tpm2  
**Synonyms:** Tpm-; Tpm-2; Tro; Trop-2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG224519 representing NM\_009416  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACGCCATCAAGAAGAAGATGCAGATGCTGAACTGGACAAGGAGAATGCCATCGACCGCGCGGAGC  
AGGCCGAAGCCGACAAAAAGCAAGCTGAAGACCGATGCAAGCAGCTGGAGGAAGAGCAGCAGGCCCTCCA  
GAAGAAGCTGAAGGGACAGAGGACGAGGTGGAAAAGTATTCGAGTCCGTGAAGGATGCCCAGGAGAAA  
CTGGAGCAGGCTGAGAAGAAGGCCACCGACGCTGAAGCAGATGTGGCCTCTCTGAACCGCCGATTACAG  
TCGTAGAGGAGGAGTTGGATCGGGCACAGGAGCGCCTGGCTACAGCCTTGCAAAAGCTGGAGGAGGCTGA  
GAAAGCCGCGGATGAGAGCGAGAGAGGAATGAAGGTCATTGAAAACCGGGCCATGAAGGATGAGGAAAAG  
ATGGAGCTGCAGGAGATGCAGCTGAAGGAAGCCAAGCACATCGCTGAGGACTCAGACCGCAATATGAGG  
AGGTGGCCAGGAAGCTGGTATCCTGGAAGGGGAGCTGGAGCGCTCGGAAGAGAGAGCCGAGGTGGCTGA  
GAGTAAATGTGGGGACCTAGAGGAGGAGCTGAAAATTGTTACCAACAACCTGAAATCCCTGGAAGCCCAA  
GCGGACAAGTATTCACCAAGAGGACAAATACGAAGAAGAGATCAAACCTTGGAGGAGAAGCTGAAAG  
AGGCTGAGACCCGAGCAGAGTTTGGCTGAAAGATCTGTGGCAAAGTTGGAGAAAACCATTGATGATCTGGA  
AGATGAAGTCTATGCACAGAAGATGAAGTACAAGGCCATCAGCGAGGAGCTGGACAACGCACTCAATGAC  
ATCACTTCCCTC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG224519 representing NM\_009416  
 Red=Cloning site Green=Tags(s)

MDAIIKKKMQMLKLDKENAIDRAEQAEADKKQAEDRCKQLEEEQQALQKCLKGTEDEVEKYSESVKDAQEK  
 LEQAEEKATDAEADVASLNRRIQLVVEEELDRAQERLATALQKLEEAKEAADESERGMKVIENRAMKDEEK  
 MELQEMQLKEAKHIAEDSDRKYEEVARKLVILEGELERSEERA EVAESKCGDLEELKIVTNNLKSLEAQ  
 ADKYSTKEDKYEEEIKLLEEKLKEAETRAEFAERSVAKLEKTIDDLDEVYAQKMKYKAI SEELDNALND  
 ITSL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_009416

**ORF Size:** 852 bp

**OTI Disclaimer:** 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:** [NM\\_009416.4](#)

**RefSeq Size:** 2098 bp

**RefSeq ORF:** 855 bp

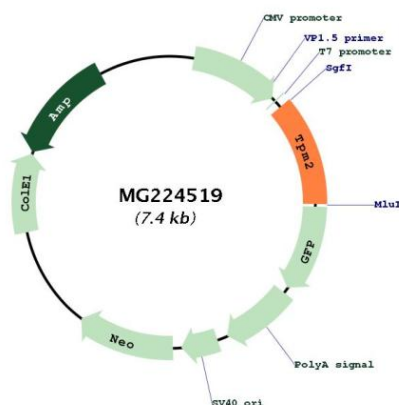
**Locus ID:** 22004

**UniProt ID:** [P58774](#)

**Cytogenetics:** 4 A5

**Gene Summary:** This gene belongs to the tropomyosin family which encodes proteins that bind to actin filaments and stabilize them by regulating access to actin modifying proteins. The encoded protein is a high molecular weight tropomyosin expressed in slow skeletal muscle. In humans, mutations in this gene are associated with nemaline myopathy, cap disease and distal arthrogryposis syndromes. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2013]

## Product images:



Circular map for MG224519