

Product datasheet for **MG217002**

Tpm1 (NM_001164251) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tpm1 (NM_001164251) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tpm1
Synonyms:	AA986836; AI854628; alpha-TM; TM2; Tm3; Tmpa; Tpm-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG217002 representing NM_001164251 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACGCCATCAAGAAGAAGATGCAGATGCTGAAGCTCGACAAAGAGAACGCCTTGGATCGAGCTGAGC
AAGCGGAGGCTGATAAGAAGGCGCGGAAGACCGGAGCAAGCAGCTGGAAGATGAGCTGGTGTCACTGCA
AAAGAACTCAAGGCACTGAAGATGAAGTGGACAAATACTCCGAGGCTCTCAAAGATGCCAGGAGAAA
CTGGAGCTGGCGGAGAAAAGGCCACAGATGCTGAAGCTGACGTAGCTTCTCTGAACAGACGCATCCAGC
TGTTGAGGAGGAGTTGGATCGTCTCAGGAGCGTCTGGCCACAGCTCTGCAGAAGCTGGAGGAGCCGA
GAAGGCTGCAGATGAGAGTGAGAGAGGCATGAAAGTCATTGAAAGCCGAGCCAAAAAGATGAAGAAAAG
ATGGAGATTCAGGAGATCCAGCTGAAAGAGGCCAAGCACATTGCTGAAGATGCTGACCGGAAGTATGAAG
AGGTGGCCGTAAGCTGGTCAATCGAGAGCGACCTGGAACGTGCAGAGGAGCGGGCTGAGCTCTCAGA
AGGCCAAGTTCGACAGCTGGAAGAACAGTTAAGAATAATGGATCAGACCTTGAAGCATTAAATGGCTGCA
GAGGATAAGTACTCTCAGAAGGAAGACAAATATGAAGAGGAGATCAAGTTCTCTCTGACAAGCTGAAGG
AGGCTGAAACTCGGGCTGAGTTTGAGAGAGATCAGTAACCAAATGGAGAAAAGCATTGATGACTTAGA
AGACGAGCTGTATGCTCAGAACTGAAGTACAAGGCCATCAGCGAGGAGCTGGACCACGCTCTCAACGAT
ATGACTTCATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG217002 representing NM_001164251
Red=Cloning site Green=Tags(s)

MDAIIKKMQMLKLDKENALDRAEQAEADKKAEDRSKQLEDELVSLQKCLKGTEDELDKYSEALKDAQEK
 LELAEEKATDAEADVASLNRRIQLVEEELDRAQERLATALQKLEEAKEAADESERGMKVIESRAQKDEEK
 MEIQEIQLKEAKHIAEDADRKYEEVARKLVIIIESDLERAEEAELSEGQVRQLEEQLRIMDQTLKALMAA
 EDKYSQKEDKYEEEIKVLSDKLKEAETRAEFAERSVTKLEKSIDDEDELYAQKLYKAISEELDHALND
 MTSI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001164251

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_001164251.1](#), [NP_001157723.1](#)

RefSeq Size: 1210 bp

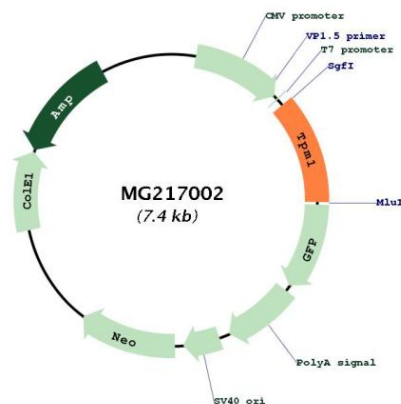
RefSeq ORF: 855 bp

Locus ID: 22003

Cytogenetics: 9 36.27 cM

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.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG217002