

Product datasheet for **MG204354**

Tpm2 (BC014809) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tpm2 (BC014809) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tpm2
Synonyms:	Tpm-2; Trop-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204354 representing BC014809 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACGCCATCAAGAAGAAGATGCAGATGCTGAACTGGACAAGGAGAATGCCATCGACCGCGCGGAGC
AGGCCGAAGCCGACAAAAAGCAAGCTGAAGACCGATGCAAGCAGCTGGAGGAAGAGCAGCAGGCCCTCCA
GAAGAAGCTGAAGGGGACAGAGGACGAGGTGGAAAAGTATCCGAGTCCGTGAAGGATGCCCAGGAGAAA
CTGGAGCAGGCTGAGAAGAAGGCCACCGACGCTGAAGCAGATGTGGCCTCTCTGAACCGCCGATTACAG
TCGTAGAGGAGGAGTTGGATCGGGCACAGGAGCGCCTGGCTACAGCCTTGCAAAAGCTGGAGGAGGCTGA
GAAAGCCGCGGATGAGAGCGAGAGAGGAATGAAGGTCATTGAAAACCGGGCCATGAAGGATGAGGAAAAG
ATGGAGCTGCAGGAGATGCAGCTGAAGGAAGCCAAGCACATCGCTGAGGACTCAGACCGCAATATGAGG
AGGTGGCCAGGAAGCTGGTGATCCTGGAAGGGGAGCTGGAGCGCTCGGAAGAGAGAGCCGAGGTGGCTGA
GAGCCGAGCCAGACAGCTGGAGGAGGAGCTTGAACCATGGACCAAGCCCTCAAGTCGCTGATAGCCTCA
GAGGAGGAGGTAGTAGCCTCTCTGGCCTTTCTAGGCAATGGCACCTTTTCTCACTACCTCACGTCCCT
CCCCAGTCAGCGTCTCAGGCTACTGTCTCTCTCCTGCAGCAGGAGCGGGGGCGGGGCGAGGGCTTCCAAA
CTCAGCCTGCTGCTACTTCTCTCACCCTTTGCTCTTCTCTTTCTCCTCCGCCCTCCCCACTGTG
CCACCCCATCCCCCCCCCGCCCGCCCACTGCCTCACCTACTGTGCCCTCAGCTCCATCCTGCC
ACACGCCCTGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204354 representing BC014809
 Red=Cloning site Green=Tags(s)

MDAIIKKMQLKLDKENAIDRAEQAEADKKQAEDRCKQLEEEQQALQKCLKGTEDEVEKYSESVKDAQEK
 LEQAEKKATDAEADVASLNRIQLVEEELDRAQERLATALQKLEEAKEAADESERGMKVIENRAMKDEEK
 MELQEMQLKEAKHIAEDSDRKYEEVARKLVILEGELERSEERAEVAESRARQLEELRTMDQALKSLIAS
 EEEVVASLGLSRQWHLFSLTSRSPVQRLRLLSLSCSRSGAGAGLPNSACCHSSLTLLFSFLLRPSPV
 PPHPPPPRPPHCLTSLCPHAPSCHTLPQ

TRTRPLE - GFP Tag - V

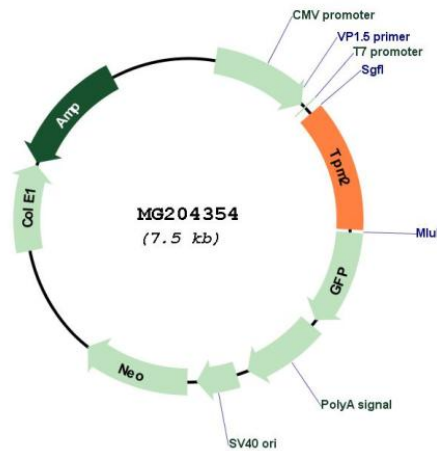
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: BC014809

ORF Size: 926 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:	<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:	BC014809 , AAH14809
RefSeq Size:	1561 bp
RefSeq ORF:	926 bp
Locus ID:	22004
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 arthrogyrosis syndromes. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2013]