

## Product datasheet for **MR204354**

### Tpm2 (BC014809) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tpm2 (BC014809) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tpm2
Synonyms:	Tpm-2; Trop-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204354 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACGCCATCAAGAAGAAGATGCAGATGCTGAACTGGACAAGGAGAATGCCATCGACCGCGCGGAGC  
AGGCCGAAGCCGACAAAAAGCAAGCTGAAGACCGATGCAAGCAGCTGGAGGAAGAGCAGCAGGCCCTCCA  
GAAGAAGCTGAAGGGGACAGAGGACGAGGTGGAAAAGTATCCGAGTCCGTGAAGGATGCCAGGAGAAA  
CTGGAGCAGGCTGAGAAGAAGGCCACCGACGCTGAAGCAGATGTGGCCTCTCTGAACCGCCGATTACAG  
TCGTAGAGGAGGAGTTGGATCGGGCACAGGAGCGCCTGGCTACAGCCTTGCAAAAGCTGGAGGAGGCTGA  
GAAAGCCGCGGATGAGAGCGAGAGGAAATGAAGGTCATTGAAAACCGGGCCATGAAGGATGAGGAAAAG  
ATGGAGCTGCAGGAGATGCAGCTGAAGGAAGCCAAGCACATCGCTGAGGACTCAGACCGCAATATGAGG  
AGGTGGCCAGGAAGCTGGTGATCCTGGAAGGGGAGCTGGAGCGCTCGGAAGAGAGAGCCGAGGTGGCTGA  
GAGCCGAGCCAGACAGCTGGAGGAGGAGCTTGAACCATGGACCAAGCCCTCAAGTCGCTGATAGCCTCA  
GAGGAGGAGGTAGTAGCCTCTCTGGCCTTTCTAGGCAATGGCACCTTTTCTCACTACCTCACGTCCCT  
CCCCAGTGCAGCGTCTCAGGCTACTGTCTCTCTCTCCTGCAGCAGGAGCGGGGGGGGGCAGGGCTTCCAAA  
CTCAGCCTGTCTCACTTTCTCTCACCCTTTGTCTTCTCTTTCTCCTCCGCCCTCCCCACTGTG  
CCACCCCATCCCCCCCCCCCCCGCCCGCCCACTGCCTCACCTCACTGTGCCCTCAGCTCCATCCTGCC  
ACACGCCCTGCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204354 protein sequence  
 Red=Cloning site Green=Tags(s)

MDAIIKKKMQMLKLDKENAIDRAEQAEADKKQAEDRCKQLEEEQQALQKCLKGTEDEVEKYSESVKDAQEK  
 LEQAEEKATDAEADVASLNRIQLVEEELDRAQERLATALQKLEEAKEAADESERGMKVIENRAMKDEEK  
 MELQEMQLKEAKHIAEDSDRKYEEVARKLVILEGELERSEERAEAESRARQLEEEELRTMDQALKSLIAS  
 EEEVVASLGLSRQWHLFSLTSRSPVQRLRLLSLSCSRSGAGAGLPNSACCHSSLTLLFSFLLRPSPTV  
 PPHPPPPRPPHCLTSLCPHAPSCHTPLQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** BC014809

**ORF Size:** 924 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:** [BC014809](#), [AAH14809](#)

**RefSeq Size:** 1561 bp

**RefSeq ORF:** 926 bp

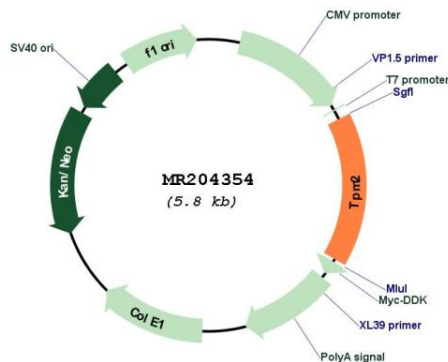
**Locus ID:** 22004

**Cytogenetics:** 4 A5

**MW:** 34.8 kDa

**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 MR204354