

Product datasheet for **MR228999**

Tpm2 (NM_001277875) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tpm2 (NM_001277875) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Tpm2
Synonyms: Tpm-; Tpm-2; Tro; Trop-2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR228999 representing NM_001277875
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGACGCCATCAAGAAGAAGATGCAGATGCTGAACTGGACAAGGAGAATGCCATCGACCGCGCGGAGC
AGGCCGAAGCCGACAAAAAGCAAGCTGAAGACCGATGCAAGCAGCTGGAGGAAGAGCAGCAGGCCCTCCA
GAAGAAGCTGAAGGGGACAGAGGACGAGGTGGAAAAGTATTCGAGTCCGTGAAGGATGCCAGGAGAAA
CTGGAGCAGGCTGAGAAGAAGGCCACCGACGCTGAAGCAGATGTGGCCTCTCTGAACCGCCGATTCAAGC
TCGTAGAGGAGGAGTTGGATCGGGCACAGGAGCGCCTGGCTACAGCCTTGCAAAAAGCTGGAGGAGGCTGA
GAAAGCCGCGGATGAGAGCGAGAGAGGAATGAAGGTCAATTGAAAACCGGGCCATGAAGGATGAGGAAAAAG
ATGGAGCTGCAGGAGATGCAGCTGAAGGAAGCCAAGCACATCGCTGAGGACTCAGACCGCAAAATATGAGG
AGGTGGCCAGGAAGCTGGTGATCCTGGAAGGGGAGCTGGAGCGCTCGGAAGAGAGAGCCGAGGTGGCTGA
GAGTAAATGTGGGGACCTAGAGGAGGAGCTGAAAATTGTTACCAACAATTGAAATCCCTGGAAGCCCAA
GCGGACAAGTATCCACCAAAGAGGACAAATACGAAGAAGAGATCAAATTCTGGAGGAGAAGCTGAAAG
AGGCTGAGACCCGAGCAGAGTTTGTGAAAGATCTGTGGCAAAGTTGGAGAAAACCATTGATGATCTGGA
AGAGACTTTGGCCAGTGCCAAGGAAGAGAACGTGGAGATACACCAGACCTTGACCAGACCCCTTCTGGAA
CTCAACAACCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR228999 representing NM_001277875
Red=Cloning site Green=Tags(s)

MDAIIKKMQMLKLDKENAIDRAEQAEADKKQAEDRCKQLEEEQQALQKCLKGTEDEVEKYSESVKDAQEK
 LEQAEEKATDAEADVASLNRIQLVEEELDRAQERLATALQKLEEAKEKADESERGMKVIENRAMKDEEK
 MELQEMQLKEAKHIAEDSDRKYEEVARKLVILEGELERSEERAEVAESKCGDLEELKIVTNNLKSLEAQ
 ADKYSTKEDKYEEEIKLLEEKLEAEETRAEFAERSVAKLEKTIDDLLEETLASAKEENVEIHQTLDQTLLE
 LNNL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

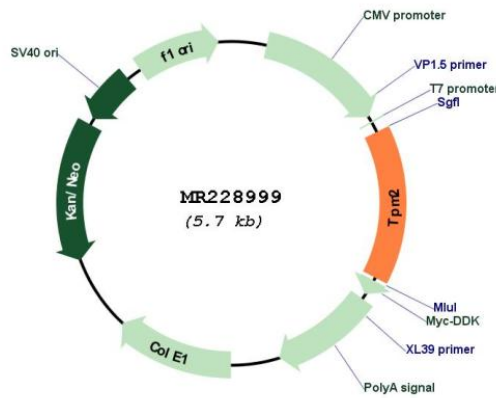
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001277875

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:	<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:	NM_001277875.1 , NP_001264804.1
RefSeq Size:	2108 bp
RefSeq ORF:	855 bp
Locus ID:	22004
Cytogenetics:	4 A5
MW:	33.3 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]