

Product datasheet for MR224519

Tpm2 (NM_009416) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tpm2 (NM_009416) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tpm2
Synonyms:	Tpm-; Tpm-2; Tro; Trop-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR224519 representing NM_009416 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGACGCCATCAAGAAGAAGATGCAGATGCTGAACTGGACAAGGAGAATGCCATCGACCGCGCGGAGC
AGGCCGAAGCCGACAAAAAGCAAGCTGAAGACCGATGCAAGCAGCTGGAGGAAGAGCAGCAGGCCCTCCA
GAAGAAGCTGAAGGGGACAGAGGACGAGGTGGAAAAGTATTCGAGTCCGTGAAGGATGCCCAGGAGAAA
CTGGAGCAGGCTGAGAAGAAGGCCACCGACGCTGAAGCAGATGTGGCCTCTCTGAACCGCCGATTACAG
TCGTAGAGGAGGAGTTGGATCGGGCACAGGAGCGCCTGGCTACAGCCTTGCAAAAGCTGGAGGAGGCTGA
GAAAGCCGCGGATGAGAGCGAGAGGAAATGAAGGTCATTGAAAACCGGGCCATGAAGGATGAGGAAAAG
ATGGAGCTGCAGGAGATGCAGCTGAAGGAAGCCAAGCACATCGCTGAGGACTCAGACCGCAATATGAGG
AGGTGGCCAGGAAGCTGGTGATCCTGGAAGGGGAGCTGGAGCGCTCGGAAGAGAGAGCCGAGGTGGCTGA
GAGTAAATGTGGGGACCTAGAGGAGGAGCTGAAAATTGTTACCAACAACCTGAAATCCCTGGAAGCCCAA
GCGGACAAGTATTCACCAAGAGGACAAATACGAAGAAGAGATCAAACCTCTGGAGGAGAAGCTGAAAG
AGGCTGAGACCCGAGCAGAGTTTGGCTGAAAGATCTGTGGCAAAGTTGGAGAAAACCATTGATGATCTGGA
AGATGAAGTCTATGCACAGAAGATGAAGTACAAGGCCATCAGCGAGGAGCTGGACAACGCACTCAATGAC
ATCACTTCCCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR224519 representing NM_009416
 Red=Cloning site Green=Tags(s)

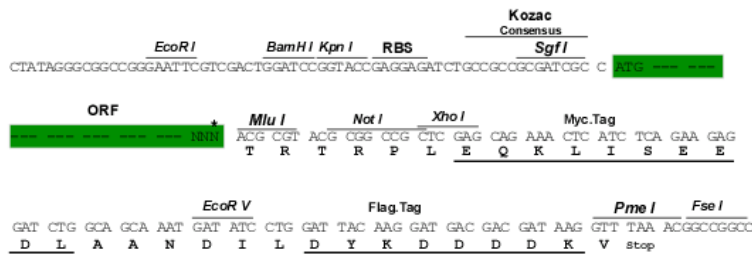
MDAIIKKKMQMLKLDKENAIDRAEQAEADKKQAEDRCKQLEEEQQALQKCLKGTEDEVEKYSESVKDAQEK
 LEQAEEKKATDAEADVASLNRRIQLVEEELDRAQERLATALQKLEEAKEKADESERGMKVNIENRAMKDEEK
 MELQEMQLKEAKHIAEDSDRKYEEVARKLVILEGELERSEERAEAESKCGDLEELKIVTNNLKSLEAQ
 ADKYSTKEDKYEIEIKLLEEKLEAEETRAEFAERSVAKLEKTIDDLDEEVYAQKMKYKAISEELDNLND
 ITSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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

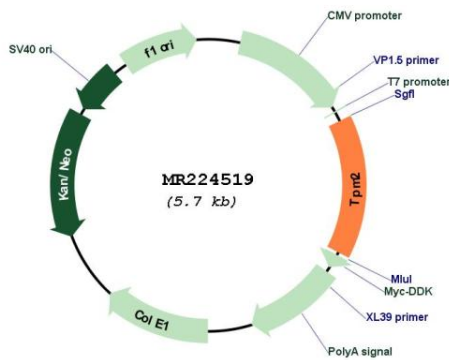
UniProt ID: [P58774](#)

Cytogenetics: 4 A5

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 arthrogyrosis syndromes. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2013]

Product images:



Circular map for MR224519