

Product datasheet for **MR228770**

Tpm3 (NM_001253738) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tpm3 (NM_001253738) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tpm3
Synonyms:	gamma-TM; hTM30nm; hTMnm; Tm5NM; TM30nm; TMnm; Tpm-5; Tpm5; Trop-5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR228770 representing NM_001253738 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGGGACCACCACCATCGAGGCGGTAAAGCGCAAGATCCAGGTTCTGCAGCAGCAAGCTGATGATG
CGGAGGAAAGGGCCGAGCGCCTCCAGCGGAAGTGGAGGGAGAAAGCGGGCCCGGAGCAGGCTGAAGC
TGAGGTGGCTCCTTGAACCGCAGGATCCAGCTGGTTGAAGAGGAGCTGGACCGTCCGAGGAGCGCCTT
GCCACTGCTTTGCAGAAGCTGGAGGAAGCAGAGAAGGCTGCTGATGAGAGTGAGAGAGGTATGAAGGTGA
TTGAAAATCGGGCTCTAAAAGATGAAGAAAAGATGGAAGTCCAGGAAATCCAGCTAAAGGAAGCAAAGCA
CATTGCAGAAGAGGCCGATAGGAAGTATGAAGAGGTGGCTCGTAAGTTGGTGATTATTGAAGGAGACTTG
GAACGCACGGAGGAACGTGCTGAGCTGGCAGAGTCCCCTTCCGAGAGATGGATGAACAGATCAGACTGA
TGGACCAGAACCTGAAGTGTCTGAGTGTCTGTAAGAAAAGTACTCTCAAAAAGAAGACAAGTATGAAGA
AGAAATAAAGATTCTTACTGATAAACTCAAGGAGGCAGAGACCCGTGCTGAGTTTGTGAAAGATCGGTA
GCCAAGCTGGAGAAGACCATTGATGACCTGGAAGATAAACTGAAGTGCACCAAAGAGGAGCATCTCTGTA
CACAAAGGATGCTGGACCAGACCCTGCTGGACCTGAACGAGATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR228770 representing NM_001253738
 Red=Cloning site Green=Tags(s)

MAGTTTIEAVKRRKIQVLQQADDAEERAERLQREVEGERRAREQAEAEVASLNRRIQLVEEELDRAQERL
 ATALQKLEEAKEAADESERGMKVIENRALKDEEKMELQEIQKAKHIAEEADRKYYEVARLVIIEGDL
 ERTEERAELAESRCREMDEQIRLMDQNLKCLSAEEKYSQKEDKYEEEEIKILTDKLKEAETRAEFAERSV
 AKLEKTIDDLKLDKCTKEEHLCTQRMLDQTLDDLNLNEM

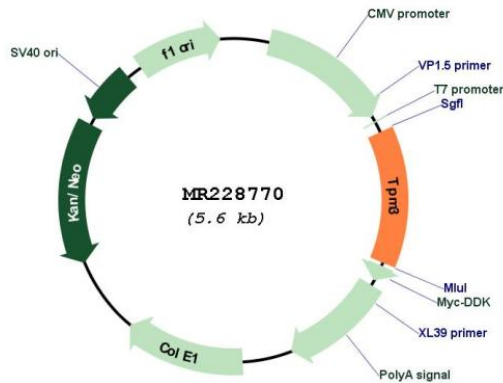
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001253738
ORF Size: 744 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_001253738.1 , NP_001240667.1
RefSeq Size:	2256 bp
RefSeq ORF:	747 bp
Locus ID:	59069
UniProt ID:	P21107
Cytogenetics:	3 F1
MW:	29.5 kDa
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]