

## Product datasheet for **MR229004**

### Tpm3 (NM\_001293748) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tpm3 (NM_001293748) 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:	>MR229004 representing NM_001293748 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGATGGAGGCCATCAAGAAAAAGATGCAGATGCTGAAGTTAGACAAAGAGAATGTTCTGGACCGAGCTG  
AGCAAGCTGAAGCTGAGCAGAAACAGGCAGAAGAAAGAAGCAAGCAGCTAGAGGATGAAGTAGCAACCAT  
GCAGAAGAAGCTGAAAGGGACAGAGGATGAGCTGGACAAGTATTCGGAAGCTTTAAAGGATGCTCAGGAG  
AAGCTGGAGCTAGCAGAGAAGAAGGCAGCCGACGCTGAAGCTGAGGTGGCCTCCTTGAACCGCAGGATCC  
AGCTGGTTGAAGAGGAGCTGGACCGTGGCAGGAGCGCCTTGCCACTGCTTGCAGAAGCTGGAGGAAGC  
AGAGAAGGCTGCTGATGAGAGTGAGAGAGGTATGAAGGTGATTGAAAATCGGGCTCTAAAAGATGAAGAA  
AAGATGGAACCCAGGAAATCCAGCTAAAGGAAGCAAAGCACATTGCAGAAGAGGCCGATAGGAAGTATG  
AAGAGGTGGCTCGTAAGTTGGTGATTATTGAAGGAGACTTGAACGCACGGAGGAACGTGCTGAGCTGGC  
AGAGTCTAAGTGTCTGAGCTGGAGGAGGAGCTGAAGAATGTACCAACAACCTCAAGTCTTTGAGGCT  
CAGGCGGAGAAGTACTCTAAAAAGAAGACAAGTATGAAGAAGAAATAAAGATTCTTACTGATAAACTCA  
AGGAGGCAGAGACCCGTGCTGAGTTTGTGAAAGATCGGTAGCCAAGCTGGAGAAGACCATTGATGACCT  
GGAAGACGAGCTCTATGCCAGAAACTGAAGTACAAGGCCATTAGCGACGAGCTGGACCACGCCCTCAAT  
GACATGACCTCTATA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR229004 representing NM\_001293748  
 Red=Cloning site Green=Tags(s)

MMEAIKKKMQMLKLDKENVLDRAEQAEAEQQAERSKQLEDELATMQKKLKGTEDELDKYSEALKDAQE  
 KLELAEKKAADAEAVASLNRRIQLVEELDRAQERLATALQKLEEAKAADSESRGMKVIENRALKDEE  
 KMELQEIQLKEAKHIAEEADRKYEEVARKLVIIIEGDLERTEERAELAESKCSLEEEELKNVTNNLKSLEA  
 QAEKYSQKEDKYEEEIKILTDKLKEAETRAEFAERSVAKLEKTIDDLDELAYAQKLKYKAISDEL DHALN  
 DMTSI

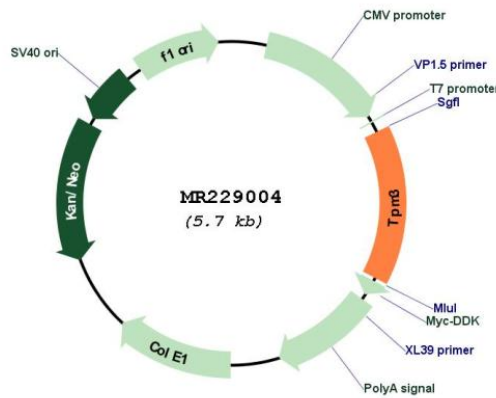
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001293748

**ORF Size:** 855 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001293748.1</a> , <a href="#">NP_001280677.2</a>
<b>RefSeq Size:</b>	1137 bp
<b>RefSeq ORF:</b>	858 bp
<b>Locus ID:</b>	59069
<b>UniProt ID:</b>	<a href="#">P21107</a>
<b>Cytogenetics:</b>	3 F1
<b>MW:</b>	33.4 kDa
<b>Gene Summary:</b>	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]