

Product datasheet for **RR200218**

Tpm3 (NM_173111) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tpm3 (NM_173111) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Tpm3
Synonyms: TM30nm; Tpm5
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >NM_173111 ORF sequence, RR200218 may differ due to SNPs.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCGGGAGCACCACCATCGAGGCGGTAAAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCTGATGAT
GCGGAGGAGAGGGCCGAGCGCCTCCAGCGGAAGTGGAGGGAGAAAGCGGGCCCGGAGCAGGCTGAA
GCTGAGGTGGCCTCCTTGAACCGCAGGATCCAGCTGGTTGAAGAGGAGCTGGACCGGCCAGGAGCGC
CTTGCCACTGCTTTCAGAAGCTGGAGGAAGCGGAGAAGGCTGCTGATGAGAGTGAGAGAGGTATGAAG
GTGATTGAAAACCGGGCTCTAAAAGATGAAGAAAAGATGGAGCTCCAGGAAATCCAGCTGAAGGAAGCA
AAGCACATTGCAGAAGAGGCAGACAGGAAGTATGAAGAGGTGGCTCGTAAGTTGGTATTATTGAAGGA
GACTTGGAACGCACGGAGGAACGCGCCGAGCTGGCAGAGTCCCCTTGGCAGAGATGGATGAGCAGATC
AGACTGATGGACCAGAACCTGAAGTGTCTGAGTGTCTGTAAGAAAAGTACTCTCAAAAAGAAGACAAG
TATGAAGAAGAAATAAGATTCTTACTGATAAACTCAAGGAGCGGAGACCCGGGCTGAGTTTGTGAA
AGATCGGTAGCCAAACTGGAAAAGACCATTGATGACTTGAAGATAAGCTGAAGTGCACCAAGAGGAG
CATCTCTGTACACAAAGGATGCTGGACCAGACCCTGCTGGACCTGAACGAGATG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Protein Sequence: >Peptide sequence encoded by RR200218
Blue=ORF Red=Cloning site Green=Tag(s)

```
MAGSTTIEAVKRKIQVLQQQADDAEERAERLQREVEGERRAREQAEAEVASLNRRIQLVEEELDRAQER
LATALQKLEEAKEAADESERGMKVIENRALKDEEKMELQEIQKAKHIAEEADRKYEEVARKLVIIEG
DLERTEERAELAESRCREMDEQIRLMDQNLKCLSAEEKYSQKEDKYEIEIKILTDKLEAETRAEFAE
RSVAKLEKTIDDLKDKCTKEHLCTQRMLDQTLDDLNEM
TRTRPLEQKLISEEDLAANDILDYKDDDDKV
```

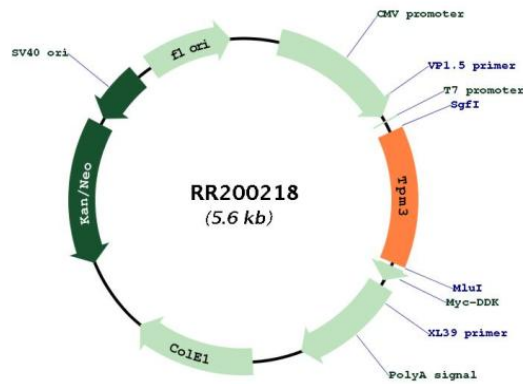
Restriction Sites: SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_173111

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:

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_173111.2](#)

RefSeq Size: 1770 bp

RefSeq ORF: 747 bp

Locus ID: 117557

UniProt ID: [Q63610](#)

Cytogenetics: 2q34

MW: 29 kDa

Gene Summary: rod-like protein associated with actin filament in nonmuscle cells; may mediate the stability of actin filaments; may play a role in the regulation of cell transformation, cytokinesis, motility, and morphogenesis [RGD, Feb 2006]