

## Product datasheet for **MC226561**

### **Tpm3 (NM\_001271764) Mouse Untagged Clone**

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | Tpm3 (NM_001271764) Mouse Untagged Clone   |
| Tag:                      | Tag Free   |
| Symbol:                   | Tpm3   |
| Synonyms:                 | gamma-TM; hTM30nm; hTMnm; Tm5NM; TM30nm; TMnm; Tpm-5; Tpm5; Trop-5                 |
| Mammalian Cell Selection: | Neomycin   |
| Vector:                   | pCMV6-Entry (PS100001)   |
| E. coli Selection:        | Kanamycin (25 ug/mL)   |
| Fully Sequenced ORF:      | >MC226561 representing NM_001271764<br>Red=Cloning site Blue=ORF Orange=Stop codon |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**

ATGGCCGGGACCACCACCATCGAGGCGGTAAAGCGCAAGATCCAGGTTCTGCAGCAGCAAGCTGATGATG  
CGGAGGAAAGGGCCGAGCGCCTCCAGCGGGAAGTGGAGGGAGAAAGCGGGCCCGGGAGCAGGCTGAAGC  
TGAGGTGGCCTCCTTGAACCGCAGGATCCAGCTGGTTGAAGAGGAGCTGGACCGTGGCAGGAGCGCCTT  
GCCACTGCTTTGCAGAAGCTGGAGGAAGCAGAGAAGGCTGCTGATGAGAGTGAGAGAGGTATGAAGGTGA  
TTGAAATCGGGCTCTAAAGATGAAGAAAAGATGGAATCCAGGAAATCCAGCTAAAGGAAGCAAAGCA  
CATTGCAGAAGAGGCCGATAGGAAGTATGAAGAGGTGGCTCGTAAAGTTGGTGATTATTGAAGGAGACTTG  
GAACGCACGGAGGAACGTGCTGAGCTGGCAGAGTCCCCTTGGCCGAGAGATGGATGAACAGATCAGACTGA  
TGGACCAGAACCTGAAGTGTCTGAGTGTCTGCTGAAGAAAAGTACTCTCAAAAAGAAGACAAGTATGAAGA  
AGAAATAAAGATTCTTACTGATAAACTCAAGGAGGCAGAGACCCGTGCTGAGTTTGCTGAAAGATCGGTA  
GCCAAGCTGGAGAAGACCATTGATGACCTGGAAGACGAGCTCTATGCCAGAACTGAAGTACAAGGCCA  
TTAGCGACGAGCTGGACCACGCCCTCAATGACATGACCTCTATA**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

|                    |              |
|--------------------|--------------|
| Restriction Sites: | SgfI-MluI    |
| ACCN:              | NM_001271764 |
| Insert Size:       | 747 bp       |



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|                               |  |
|-------------------------------|--|
| <b>OTI Disclaimer:</b>        | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).   |
| <b>OTI Annotation:</b>        | Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.   |
| <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>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.   |
| <b>RefSeq:</b>                | <u>NM_001271764.1, NP_001258693.1</u>  |
| <b>RefSeq Size:</b>           | 2345 bp  |
| <b>RefSeq ORF:</b>            | 747 bp   |
| <b>Locus ID:</b>              | 59069  |
| <b>Cytogenetics:</b>          | 3 F1   |
| <b>Gene Summary:</b>          | <p>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]</p> <p>Transcript Variant: This variant (5, also known as variant Tpm3.5) represents the use of an alternate promoter and has multiple differences compared to variant Tpm3.13. These differences result in different 5' and 3' UTRs and cause translation initiation at an alternate start codon compared to variant Tpm3.13. The encoded isoform (Tpm3.5cy, also known as isoform 5) has distinct N- and C- termini and is shorter than isoform Tpm3.13cy. Isoforms Tpm3.1cy, Tpm3.2cy, and Tpm3.5cy are the same length, but contain distinct C-termini.</p> |