

## Product datasheet for MC223698

### Tmc3 (NM\_177695) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tmc3 (NM_177695) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tmc3
Synonyms:	9030203A06
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223698 representing NM_177695 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAAAACCTCAAAGGCATCCCAGCGCTACAGAAGCATTTCGGAGAAACGCCAGCCAGTGTATCTCTACC  
AGGACTCCCTGCTTCTTGGTAACTCCGATGACAGCTTTAATGCTGATGAAACGGGAGACAGCAGTATCC  
GGAACAAATCTTCCAGAATATACAGTTTCAGAAAGATTCATGGCAAATATCCGCTGCAGACCCTGGACC  
ATGGGGCAGAAACTGCGGGCACTGAGACAGCCAAGGAGATTGTGCTGAAAGTTTGAAGGGAGGCTGACCA  
GGACTCGAGGCTACCAGGCAGCAGGAGCAGAGCTCTGGCGGAAATTCGCCCGTCTGGCCTGTAACCTTGT  
GGTCATCTTCATCCCCTGGGAAATGAGGATAAAGAAAATTGAGAGTCACTTCGGGTCTGGTGTGGCCTCC  
TACTTCATCTTCTGAGGTGGCTATTTGGGATTAACATAGTGCTCACAGTGATGACCGGTGCCTTTGTTG  
TCCTTCCCAGCTGATCGCAGGCCAGCCCTTTGGAAGTACAGCCAGCAAGACCATTCCCCGGGAGCAGAT  
CACATTCGCACAGGATCTGGACTGTCTGGTCCCTGGGGGCTACCTTCAATACTCCGTCCTGTCTAC  
GGTACTACGGAAGAGAGAGCGGATCGGGAGAGCCGGTACCGCCTGCCCTGGCGTATTTCTGGTGG  
GGATGGCAGTGTGCTTACAGCTTCATCGTTCTTAAAAAAGATGGCTAAGAACTCCCGCACCAGCCT  
AGCCAGTCTTCAATGAAAATTACACCTTCTGCTGGCGGTGTTTTGTGCTGGGATTATCTCATTGGG  
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CCTCTCACTGGCTGGAAGCATCTATCTCATCTACTTTGTGGTGGACCGGTCCCAGAAGCTGGAGCAGTCG  
AAGAAGGAGCTGACACTTTGGGAAAAGAATGAGGTAAGCGTGGTGGTCTCCCTCGTACCATGCTAGCAC  
CGTCTGCCTTTGACCTCATCGCTGCCTTGGAGATGTATCATCCACGGACGACACTGCGCTCCAGTTAGC  
AAGGGTCTGGTACTGTATTTAGGAAATCTCTACAGCTTGATCATTGCTCTTCTGGACAAAGTGAACAGC  
ATGAACATTGAGGAAGCTGCTACTAAAAACATAACAAGCCACTGGCAGATGCTCCACCTTCTCTGCCA  
CCAGGACAGTGCCTGAAGAAGGGCAGTGGCCACACCTGGATCAGGAGCGGAGCTCAGGAGAAACACTAG  
CACATGGGTCGTAGAAGAGACAAGCTTTCTGACTTCTATCACGCCACATACAAAGGCCAACAAAGACAGTG  
CCCTACATGCAGGGCCACAAGGCCAGTGTGGGAGACATATGTCGGCCAGGAGATGCTGAAGCTGTCTG



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TCATCGACATGCTCTTCACTGTGGCCAGCATCCTCCTCATAGACTTCTCCGAGGACTTTTTGTTGCTA
CCTAAGTGACTATTGGTGTGGGACCTTGAAAGCAAGTTTCTGAATATGGAGAATCAAGATTGCCGAG
AATGTGCTGCACCTTGTCTACAATCAAGGCATGATTTGGATGGGGCCTTCTTCTCTCCGTGTGCCAG
CATTCAATGTTCTTAAGCTCATTGGGCTGATGTACCTGAGGAGCTGGGCGGTGCTGACCTGCAATGTACC
CCACCAGCAAGTGTTCGAGCTCCAGATCCAACAACCTTACCTGGCAATGCTCCTGTTTCATGTTGTTCC
CTTTGCATGCTGCCACCATTGTTGCCATTGTCCACTACAAGCCGTCTCTGAAGTGTGGTCCCTTCAGCG
GACAAGAGAAAAATTTATGACATCGTGTCCGAGACGATAGAGAATGACTCCCGACTGGTTCACGCTGT
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CTTCAGAGCATCGCGAGATCACTCAAGCTCAGCAGCCAGCAACTCAGGATGCAGATCCAAAATGCGAGAT
CTGAAGATAAGAAAAAGGTTGCCAAAATGGTAGAGGCCCTAGCCATCCCTAGCGATGCCAGGCAGGCAGG
CTCAGCCACTGAAGCAGAGTCGAGTGAAAATTCAAAGCCAAAGACTCTCCAAGCTCGAATCCAGACTCAT
GAGGAAAGCAGCAAGAGGCTTCTAAAGGACAGCGACCTTATCAGCCAGCTGTCTCAGTGTATATGGCAA
CATCCCCAAAATGAGCCATATGCTTAACCTCGACTCTCTGAGTAGCAAGAGCCTCAGGATGGAGGCAAT
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AGGTCAAGGCCAGAGCAGGACACCAACAGGCATCCACATAGGCCATGTTCCAGCACAAGCAACCTCCACA
AGAACAGATCCTGCTCATCTGTGACACAGACACAGCCCCCTCAAAGATGTCGCTCAGAGCCTCTTCCCG
GAAAGACTTTTCAGCCAATCAGTCCTCTTTCTGTGGATCTGGGGTCTCTACCTTGATGACACATGACCAC
AGTCCCGTGCTCCCAGTACTATGTGGTTAATGAACGTGACTCTCACAAAAGACCCACCAGCTTTCT
GGCCAGAAAGGCATTTCAAGATAGATGCTTTAGGTGACATTGTAGAGCTGTACCCAGGAATGTGCAGCA
GTACATGTCTGGGTTCCCAACCAGCCTTGCTCTCCACAGCTGAGTGAAGAAGAGGAGGAGATGCTCAGG
AGAGATTTGGTCCAGTGGTCAATCCCTGCTAGCTCCCTGACAGACCTGCCTCGGTCTTCTGTTTTTACA
CTGGTGACAGATCAGAAAATAACACCAGAGACCCTAAATACCAGCGAAGGGTGTACTACAGATCTGGGGA
TAATAGTTTTGAAGACCAGCTTGAGAGGCCACATTTGTACACAGAAAGCCACGATCCAGGAACGGCCAA
TACCCACAGCATGCCCTGAAGGCCAGAGTCAAGGCCAAGTTCGAGCCGTCCTTCACAGAATCTGATTCTG
TGTGAGCAGCATCCAGCAGTGACCATCAAAACAGCAACAATGACCAATACCTGCATGTATGTCCAGCCA
GGGCAGATTTCCAAGGTCTGCCAGCCAGCTGGGCAGGAGGAAGGCCAAGTCCAGGCAGGTAATCCACACA
GATCTAAATGATCTAATTTGTTCAAATGTCTAG
    
```

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

SgfI-MluI

**ACCN:**

NM\_177695

**Insert Size:**

3393 bp

**OTI Disclaimer:**

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_177695.4](#), [NP\\_808363.3](#)

**RefSeq Size:** 4316 bp

**RefSeq ORF:** 3393 bp

**Locus ID:** 233424

**UniProt ID:** [Q7TQ69](#)

**Cytogenetics:** 7 D3

**Gene Summary:** Probable ion channel.[UniProtKB/Swiss-Prot Function]