

## Product datasheet for **MR221707**

### **Tmc7 (NM\_172476) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tmc7 (NM_172476) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tmc7
Synonyms:	1700030H01Rik; C230064B05; C630024K23Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR221707 representing NM\_172476  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGCGAGGGCAGCGCGGGCGACCCGGGCCACGGGTCCAGCCGGCAGCGGGCCGTACACCCAGAGAACC  
 TGTCTCTGGGTTCTAGCTGTTTCTCTCCACCTGTGAACCTCCTTCAAGAGCTGCCAAGCTATCGGTCACT  
 GGCACGTAGGAGAACAACATCCTCTCTCGGGACAAGCAAAGTGCCACCCCTGCTGAAGCCGACAGACTCT  
 TTCAGTTGCCAGCTGGATGGAGGAATCACAGAAAACCTCAACAGCCAATCCATCCGCAAGTATGCACTGA  
 ACATCTCTGAGAAGCGGAGACTAAGGGACATTCAGGAAACCCAAATGAAGTATTTATCAGAGTGGGACCA  
 GTGGAAACGGTACAGCAGCAAGTCTGGAAGAGGTTCTAGAGAAAAGCTCGAGAGATGACAAACCCACCTG  
 GAACTGTGGCGCAAAGACATCCGCAGCATTGAAGGAAAGTTTGGCACGGGGATCCAGTCTACTTCTCAT  
 TCCTGCGGTTCTGGTGGTGTGAACCTGGTGATATTCTGATCATCTTCATGTTGGTTTTGCTTCCAAT  
 CCTACTACCAAGTACAAGATTACCAACAGCACTTTTGTGCTCATCCCGTTCAAAGACATGGATATTCAG  
 TGCACACTGTATCCAATAAGTAGCTCTGGGCTCATTTACTTCTACAGTTACATCATAGACCTGCTGTCTG  
 GAACAGGATTCCTGGAGGAGACCAGCCTTTTTTATGGGCACTACACCAATTGATGGTGTAAAGTCCAGAG  
 CTTACAGTATGACCTGCCCTGGCTTACTTGATAAGCACGATTGCCTACCTGGCCCTGAGCCTCCTTTGG  
 ATCGTGAAAAGGTCGGTGAAGGGTTCAAGATCAACCTGATTCGGAGCGAGGAACACTTTTCAGAGTACT  
 GTAATAAGATCTTCGCTGGCTGGGACTTCTGCATCACCAACCGCAGCATGGCTGAGCTGAAGCACAGCAG  
 CTTGCGGTACGAGCTCCGAGCAGATCTGGAAGAAGAGAGAATACGACAGAAAATAGCAGAAAAGGACCTCA  
 GAGGAGACCATCCGCATTTACACTTTGAGGCTGTTTTTGAAGTGCATTGTGCTGTGCTAGCGGCAT  
 GCTTTTATGCAATCTACCTAGCAACTGCCTTCTCACAGGAACACATGAAAAAAGAAATTGACAAGATGGT  
 TTTTGGGAGAACTGTTGATATTGTACCTCCCGTCCATTGTGATTACCCTGGCCAAATTCATTACCCCA  
 ATCATCTTTGCCAAGATCATCCACTACGAGGATTACTCGCCAGGCTTTGAGATCCGCCTGACGATTCCTTA  
 GGTGTGCTTTATGCGGCTGGCCACCATCTGTGTGCTGGTGTTCACGCTGGGCTCCAAGATCACATCCTG  
 TGGTGACAGCACGTGGAACCTCTGCGGCTATAACCAGAACTCTACCCGTGCTGGGAGACTCAGGTGGGA  
 CAGGAAATGTACAAGCTGATGATCTTCGACTTCATCATCATCCTGGCCGTGACGCTGTTTGTGGATTTCC  
 CTAGGAAGCTCCTGGTGACCTACTGTGCCTCCTCAAAGCTGATCCAGTGTGGGCCAGCAGGAATTCGC  
 CATCCCCGACAATGTCTGGGCATCGTGTACGGGCAGACCATCTGTTGGATTGGAGCCTTCTTCTCCCCA  
 CTCTCCCTGCCATTGCCACCTGAAATTCGTTATCATCTTTATGTGAAAGAGTTGAGTCTTCTCTACA  
 CCTGCAGACCCTCCCGAGGCAGTTCAGAGCATCCAATTCCTAATCTTCTTCTCTGCTGGTGTGCTGAT  
 TGGGCTGTGCCTAGCAATCATACCTCTGACCATCAGCATGGCTCGCATCCCTTCTCAAAGCCTGCGGC  
 CCATTTACCAACTTCAACACCACCTGGGAAGTGATTCTCAGACTGTGAGCACCTTCCCCAGCTCGCTGC  
 AGACCCTGATCCATGCCGTTACATCAGAAGCCTTCGCGGTGCCTTTCTTCATGATCATCTGCCTGTGAT  
 GTTCTACTTCATTGCACTGGCTGGAGCACACAAGCAGGTGGTGTACAGCTTCGAGAGCAGCTGTCCCTG  
 GAGAGTCGTGACAAGCGTTATCTTATCCAGAACTAACAGAAGCTCAAAGGGAGGTCCGGAGCCAGCCGG  
 CTTACGCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR221707 representing NM\_172476  
 Red=Cloning site Green=Tags(s)

MSEGSAGDPGHGSSRQRAVHPENLSLGSSCFSPVNFQLQELPSYRSVARRRRTNILSRDKQSGTLLKPTDS  
 FSCQLDGGITENLSQSIKRYALNISEKRRLRDIQETQMKYLSEWDQWKRYSSKSWKRFLEKAREMTTHL  
 ELWRKDIRSIEGKFGTGIQSYFSFLRFLVVLNLVIFLIIIFMLVLLPILLTKYKITNSTFVLIPFKDMDIQ  
 CTLYPISSGLIYFYSYIIDLLSGTGFLLEETSLFYGHYIDGVKFSFTYDLPLAYLISTIAYLALLLW  
 IVKRSVEGFKINLIRSEEHFQSYCNKIFAGWDFCIITNRSMaelKHSSLRyelRADLEEEERIQKIAERTS  
 EETIRIYTLRFLNcIVLAVLAACFYAIYLATAFSQEHMKKEIDKMVFGENLLILYLPSIVITLANFITP  
 IIFAKIIHYEDYSPGFEIRLTILRCVFMRLATICVLVFTLGSKITSCGDSTCELCGYNQKLYPCWETQVG  
 QEMYKLMIFDFIILAVTLFVDFPRKLLVTCASSKLIQCWQQEFAIPDNVLGIVYGQTCWIGAFFSP  
 LLPAIATLKVFVIFVVKELSLLYTCRSPRQFRASNSNFFLLVLLIGLCLAIPLTISMARIPSSKACG  
 PFTNFNTTWEVIPQTVSTFPSSLQTLIHAVTSEAFVPPFMIICLVMFYFIALAGAHKQVVVQLREQLSL  
 ESRDKRYLIQKLTEAQREVRSQPASA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9004\\_e06.zip](https://cdn.origene.com/chromatograms/mm9004_e06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

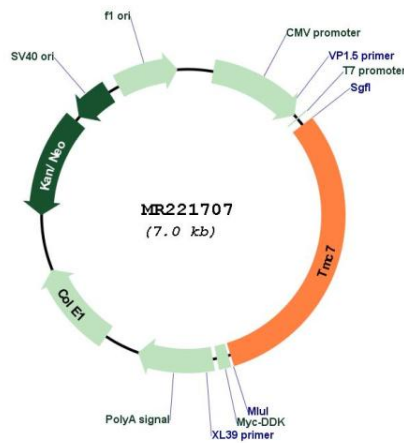
**ACCN:** NM\_172476

**ORF Size:** 2178 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.

<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>	<u>NM_172476.4, NP_766064.2</u>
<b>RefSeq Size:</b>	4493 bp
<b>RefSeq ORF:</b>	2181 bp
<b>Locus ID:</b>	209760
<b>UniProt ID:</b>	<u>Q8C428</u>
<b>Cytogenetics:</b>	7 F1-F2
<b>MW:</b>	83.8 kDa
<b>Gene Summary:</b>	Probable ion channel.[UniProtKB/Swiss-Prot Function]

**Product images:**


Circular map for MR221707