

Product datasheet for **MG221707**

Tmc7 (NM_172476) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmc7 (NM_172476) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tmc7
Synonyms:	1700030H01Rik; C230064B05; C630024K23Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG221707 representing NM_172476
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGAGCGAGGGCAGCGCGGGCGACCCGGGCCACGGGTCCAGCCGGCAGCGGGCCGTACACCCAGAGAACC
TGTCTCTGGGTTCTAGCTGTTTCTCTCCACCTGTGAACCTCCTTCAAGAGCTGCCAAGCTATCGGTCACT
GGCACGTAGGAGAACAACATCCTCTCTCGGGACAAGCAAAGTGGCACCCCTGCTGAAGCCGACAGACTCT
TTCAGTTGCCAGCTGGATGGAGGAATCACAGAAAACCTCAACAGCCAATCCATCCGCAAGTATGCACTGA
ACATCTCTGAGAAGCGGAGACTAAGGGACATTCAGGAAACCCAAATGAAGTATTTATCAGAGTGGGACCA
GTGGAAACGGTACAGCAGCAAGTCTGGAAGAGGTTCTAGAGAAAGCTCGAGAGATGACAAACCCACCTG
GAACTGTGGCGCAAAGACATCCGCAGCATTGAAGGAAAGTTTGGCACGGGGATCCAGTCTACTTCTCAT
TCCTGCGGTTCTGGTGGTGTGAACCTGGTGATATTCTGATCATCTTCATGTTGGTTTTGCTTCCAAT
CCTACTACCAAGTACAAGATTACCAACAGCACTTTTGTGCTCATCCCGTTCAAAGACATGGATATTCAG
TGCACACTGTATCCAATAAGTAGCTCTGGGCTCATTTACTTCTACAGTTACATCATAGACCTGCTGTCTG
GAACAGGATTCTTGGAGGAGACCAGCCTTTTTTATGGGCACTACACCATTTGATGGTGTAAAGTCCAGAG
CTTCACGTATGACCTGCCCTGGCTTACTTGATAAGCACGATTGCCTACCTGGCCCTGAGCCTCCTTTGG
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GTAATAAGATCTTCGCTGGCTGGACTTCTGCATCACCAACCGCAGCATGGCTGAGCTGAAGCACAGCAG
CTTGGCGTACGAGCTCCGAGCAGATCTGGAAGAAGAGAGAATACGACAGAAAATAGCAGAAAAGGACCTCA
GAGGAGACCATCCGCATTTACACTTTGAGGCTGTTTTTGAAGTGCATTGTGCTTGCTGAGCGGCAT
GCTTTTATGCAATCTACCTAGCAACTGCCTTCTCACAGGAACACATGAAAAAAGAAATTGACAAGATGGT
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ATCATCTTTGCCAAGATCATCCACTACGAGGATTACTCGCCAGGCTTTGAGATCCGCCTGACGATTCTTA
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TGGTGACAGCACGTGGAACCTGCGGCTATAACCAGAACTCTACCCGTGCTGGGAGACTCAGGTGGGA
CAGGAAATGTACAAGCTGATGATCTTCGACTTCATCATCATCCTGGCCGTGACGCTGTTTGTGGATTTCC
CTAGGAAGCTCCTGGTGACCTACTGTGCCTCCTCAAAGCTGATCCAGTGTGGGCCAGCAGGAATTCGC
CATCCCCGACAATGTCTGGGCATCGTGTACGGGCAGACCATCTGTTGGATTGGAGCCTTCTTCTCCCCA
CTCCTCCCTGCCATTGCCACCTTGAATTCGTTATCATCTTTATGTGAAAGAGTTGAGTCTTCTCTACA
CCTGCAGACCCTCCCGAGGCAGTTCAGAGCATCCAATTCCTAATCTTCTTCTCTGCTGGTGTGCTGAT
TGGGCTGTGCCTAGCAATCATACCTCTGACCATCAGCATGGCTCGCATCCCTTCTCAAAGCCTGCGGC
CCATTTACCAACTTCAACACCACCTGGGAAGTGATTCTCAGACTGTGAGCACCTTCCCCAGCTCGCTGC
AGACCCTGATCCATGCCGTTACATCAGAAGCCTTCGCGGTGCCTTTCTTCATGATCATCTGCCTTGCAT
GTTCTACTTCATTGCACTGGCTGGAGCACACAAGCAGGTGGTGTACAGCTTCGAGAGCAGCTGTCCCTG
GAGAGTCGTGACAAGCGTTATCTTATCCAGAACTAACAGAAGCTCAAAGGGAGGTCCGGAGCCAGCCGG
CTTCAGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG221707 representing NM_172476
 Red=Cloning site Green=Tags(s)

MSEGSAGDPGHGSSRQRAVHPENLSLGSSCFSPVNFQLQELPSYRSVARRRNTILSRDKQSGTLLKPTDS
 FSCQLDGGITENLSQSIKRYALNISEKRRLDIIQETQMKYLSEWDQWKRYSSKSWKRFLEKAREMTTHL
 ELWRKDIRSIEGKFGTGIQSYFSLRFLVVLNLVIFLIIFMLVLLPILLTKYKITNSTFVLIPFKDMDIQ
 CTLYPISSSGLIYFYSYIIDLLSGTGFLLEETSLFYGHYTDGKVFQSFTYDLPLAYLISTIAYLALSLLW
 IVKRSVEGFKINLIRSEEHFQSYCNKIFAGWDFCITNRSMaelKHSSLRyelRADLEEERIRQKIAERTS
 EETIRIYTLRFLNcIVLAVLAACFYAIYLATAFSQEHMKKEIDKMVFGENLLILYLPSIVITLANFITP
 IIFAKIIHYEDYSPGFEIRLTILRCVFMRLATICVLVFTLGSKITSCGDSTCELCGYNQKLYPCWETQVG
 QEMYKLMIFDFIILAVTLFVDFPRKLLVTYCASSKLIQCWQQEFAIPDNVLGIVYGQTCWIGAFFSP
 LLPAIATLKVFVIIFYVKELSLLYTCRSPRQFRASNSNFFLLVLLIGLCLAIPLTISMARIPSSKACG
 PFTNFNTTWEVIPQTVSTFPSSLQTLIHAVTSEAFVPPFMIICLVMFYFIALAGAHKQVVVQLREQLSL
 ESRDKRYLIQKLTEAQREVRSPASA

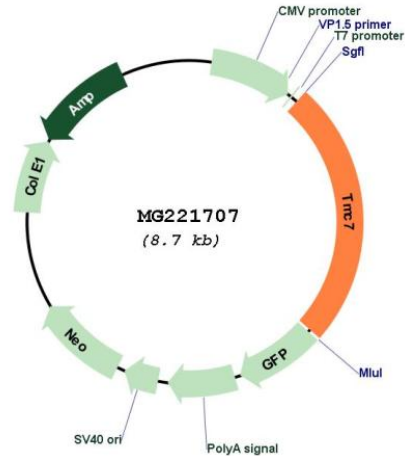
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


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.

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_172476.4](#), [NP_766064.2](#)

RefSeq Size: 4493 bp

RefSeq ORF: 2181 bp

Locus ID: 209760

UniProt ID: [Q8C428](#)

Cytogenetics: 7 F1-F2

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