

Product datasheet for MR217139

Tmc3 (NM_177695) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tmc3 (NM_177695) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Tmc3
Synonyms: 9030203A06
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR217139 representing NM_177695
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAACCTCAAAGGCATCCCAGCGCTACAGAAGCATTTCGGAGAAACGCCAGCCAGTGTATCTCTACC
 AGGACTCCCTGCTTCTTGGTAACTCCGATGACAGCTTTAATGCTGATGAAACGGGAGACAGCAGTATCC
 GGAACAAATCTCCAGAATATACAGTTTCAGAAAGATCTCATGGCAAATATCCGCTGCAGACCCTGGACC
 ATGGGGCAGAAACTGCGGGCACTGAGACGAGCCAAGGAGATTGTGCTGAAGTTTGAAGGGAGGCTGACCA
 GGACTCGAGGCTACCAGGCAGCAGGAGCAGAGCTCTGGCGGAAATTCGCCCGTCTGGCCTGTAACTTTGT
 GGTTCATCTTCATCCCTGGGAAATGAGGATAAAGAAAATTGAGAGTCACTTCGGGTCTGGTGTGGCCTCC
 TACTTCATCTTCTGAGGTGGCTATTTGGGATTAACATAGTGCTCACAGTGTGACCGGTGCCTTTGTTG
 TCCTTCCCAGCTGATCGCAGGCCAGCCCTTTGGAAGTACAGCCAGCAAGACCATTCCCCGGGAGCAGAT
 CACATCTGCACAGGATCTGGACTGTCTGGTCCCTGGGGGGCTACCTTCAATACTCCGTCTGTCTAC
 GGGTACTACGGAAGAGAGAGGGCGGATCGGGAGAGCCGGCTACCGCTGCCCTTGGCGTATTTCTGGTGG
 GGATGGCAGTGTGGCTTACAGCTTCATCGTTCTCTTAAAAAAGATGGCTAAGAATCCCGCACCAGCCT
 AGCCAGTGCTTCCAATGAAAATTACACCTTCTGCTGGCGGGTGTGGTGGCTGGGATTATCTCATTGGG
 AACCCAGAGGCTGCAGAAAGCAAAACAGCTGCCATCTTGAACAGCATTAGGGAGGCCACTGGAAGAGC
 AAGAAAAGAAAAAACAACAAACATGGCGGTGACTGTCTGTCTGAGAATCATTGCCAACATCCTGGTGTCT
 CCTCTCACTGGCTGGAAGCATCTATCTCATCTACTTTGGTGGACCGGTCCCAGAAAGCTGGAGCAGTCCG
 AAGAAGGAGCTGACACTTTGGGAAAAGAATGAGGTAAGCGTGGTGGTCTCCCTCGTACCATGCTAGCAC
 CGTCTGCCTTTGACCTCATCGCTGCCTTGGAGATGTATCATCCACGGACGACACTGCGCTTCCAGTTAGC
 AAGGGTCTGGTACTGTATTTAGGAAATCTCTACAGCTTGATCATTGCTCTTCTGGACAAAGTGAACAGC
 ATGAACATTGAGGAAGCTGCTACTAAAAACATAACAAGCCACTGGGCAGATGCTCCACCTTCTCTGCCA
 CCAGGACAGTGCCTGAAGAAGGGCAGTGGCCACACCTGGATCAGGAGCGGAGCTCAGGAGAAACACTAG
 CACATGGGTCTGAGAAGAGACAAGCTTTCTGACTTCTATCACGCCACATACAAAGCCAACAAGACAGTG



[View online »](#)

CCCTACATGCAGGGCCCAAGGCCAGTCTGGGAGACATATGTCGGCCAGGAGATGCTGAAGCTGTCTG
TCATCGACATGCTCTTCACTGTGGCCAGCATCCTCCTCATAGACTTCTCCGAGGACTTTTTGTTTCGCTA
CCTAAGTGACTATTGGTGTGGGACCTTGAAAGCAAGTTTCTGAATATGGAGAATTCAAGATTGCCGAG
AATGTGCTGCACCTTGTCTACAATCAAGGCATGATTTGGATGGGGCCTTCTTCTCTCCGTGTCTGCCAG
CATTCAATGTTCTTAAGCTCATTGGGCTGATGTACCTGAGGAGCTGGGCGGTGCTGACCTGCAATGTACC
CCACCAGCAAGTGTTCGAGCTTCAGATCCAACAACCTTACCTGGCAATGCTCCTGTTTCAATGTTGTTCC
CTTTGCATGCTGCCACCATTTTTGCCATTGTCCACTACAAGCCGTCTCTGAACGTGGTCCCTTCAGCTG
GACAAGAGAAAAATTTATGACATCGTGTCCGAGACGATAGAGAATGACTTCCCGACCTGGTTTCACGCTGT
AGTTGGACATATCAGCAGCCCCGTGGTGATACTTCCAGCTGTGCTGCTTCTGTTTCAATGCTCATCTACTAC
CTTCAGAGCATCGCGAGATCACTCAAGCTCAGCAGCCAGCAACTCAGGATGCAGATCCAAAATGCGAGAT
CTGAAGATAAGAAAAAGTTGCCAAAATGGTAGAGGCCCTAGCCATCCCTAGCGATGCCAGGCAGGCAGG
CTCAGCCACTGAAGCAGAGTCGAGTGAAAATTCAAAGCCAAAGACTCTCCAAGCTCGAATCCAGACTCAT
GAGGAAAGCAGCAAGAGGCTTCTAAAGGACAGCGACCTTATCAGCCAGCTGTCTCAGTGTATATGGCAA
CATCCCCAAAATGGCCATATGCTTAACCTCGACTCTCTGAGTAGCAAGAGCCTCAGGATGGAGGCAAT
CACAAGGTCCTGCCACAGAGTCTGGACAAGGGTCCAGGGACCCCTGCTCTCTCTTAGATGGATCT
AGGTCAAGGCCAGAGCAGGACACCAACAGGCATCCACATAGGCCATGTTCCAGCACAAGCAACCTCCACA
AGAACAGATCCTGCTCATCTGTGACACAGACACAGCCCCCAAAGATGTCGGCTCAGAGCCTCTTTCCCG
GAAAGACTTTTCAGCCAATCAGTCTCTTTCTGTGGATCTGGGGTCTCTACCTTGATGACACATGACCAC
AGTCCCGTGCTCCCAGGTAATGTGGTTAATGAACGTGACTCTCACAAAAAGACCCACCGAGCTTTCT
GGCCAGAAAGGCATTTCAAGATAGATGCTTTAGGTGACATTGTAGAGCTGTACCCAGGAATGTGCAGCA
GTACATGTCCTGGGTTCCCAACCAGCCTTGCTCTCCACAGCTGAGTGAAGAAGAGGAGGAGATGCTCAGG
AGAGATTTGGTCCAGTGGTCAATCCCTGCTAGCTCCCTGACAGACCTGCCTCGGTCTTCTGTTTTTACA
CTGGTGACAGATCAGAAAATAACACCAGAGACCCTAAATACCAGCGAAGGGTGTACTACAGATCTGGGGA
TAATAGTTTTGAAGACCAGCTTGAGAGGCCACATTTGTACACAGAAAGCCACGATCCAGGAACGGCCAA
TACCCACAGCATGCCCTGAAGGCCAGAGTCAAGGCCAAGTTTCGAGCCGCTTTCACAGAATCTGATTCTG
TGTGAGCAGCATCCAGCAGTGACCATCAAAACAGCAACAATGACCAATACCTGCATGTCATGTCCAGCCA
GGGCAGATTTCCAAGGCTGCCAGCCAGCTGGGCAGGAGGAAGGCCAAGTCCAGGCAGGACTACCCACA
GATCTAAATGATCTAATTTGTTCAAATGTC

ACGGTACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR217139 representing NM_177695
 Red=Cloning site Green=Tags(s)

MKTSKASQRYRSIRRNASQCYL YQDSL L L GNSDDSFNADETGDSSDPEQIFQNIQFQKDLMANIRCPWT
 MGQKLRALRRAKEIVLKFEGRL TRTRGYQAAGAE L WRKFARLACNFV V I F IPWEMRIKKIESHFSGSVAS
 YFIFLRLWFGINIVL TVMTGAFVVLPEL IAGQPFGSTASKTIPREQITSAQDLDTVWSLGGYLQYSVLFY
 GYYGRERRIGRAGYRLPLAYFLVGMVFAYSFIVLLKKMAKNSRTSLASASNENYTFCWRVFCAWDYLI G
 NPEAAESKTAAILNSIREAILEEQEKKNKMAVTVCLRIIANILVLLSLAGSIYLIYFVVDRSQKLEQS
 KKELTLWEKNEVSVVVSLV TMLAPSAFDLIAALEMYHPRTTLRFQLARVLVLYLGNLYSLIIALLDKVNS
 MNIEEAATKNITSHWADAPTFSATRTVPEEGQWPTPGSGAELRRNTSTWVVEETSFLT SITPHTKANKTV
 PYMQGPQGCWETVYVQEM L KLSVIDMLFTVASILLIDFFRGLFVRYLSDYWCWDLSEKFPEYGEFKIAE
 NVLHLVYNQGMWMAFFSPCLPAFNVLKLI GLMYLRSWAVLTCNVPHQQVFRASRSNNFYLAMLLFMLF
 LCMLPTIFAIVHYKPSLNC GPFSGQEKIYDIVSETIENDFPTWFHAVVGHISSPVVILPAVLLL FMLIYY
 LQSIARSLKLSQQLRMQIQNARSEDKKKVAQMVEALAI PSDARQAGSATEAESSENSKPKTLQARIQTH
 EESSKRLKDSDLISQLSSVYMATSPNNGHMLNFDSLSSKSLRMEAITRSLPQSPGQGRDPCSPLLDGS
 RSRPEQDTRNHPHRPCSSTNLHKNRSCSSVTQTQPLKDV RSEPLSRKDFQPI SPPFCGSGVSTLMT HDH
 SPRAPRYVYVNERD SHKKT HRAFWPERHF KIDALGDIVEL YPRNVQQYMSWVPNQPCSPQLSEEEEMLR
 RDLVQWSIPASSL TDLPRSSCFYT GDRSENTRDPKYQRRVYYRS GDN SFEDQLERPTFVHRKPRSRNGQ
 YPQHAKARVKAKFEPSFTESDSVSAASSSDHQNSNNDQYLHVMSQGRFPRASQLGRRKAKSRQVLP T
 DLNDLICSNV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9002_b03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_177695

ORF Size: 3390 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 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](#)

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_177695.4](#), [NP_808363.3](#)

RefSeq Size: 4316 bp

RefSeq ORF: 3393 bp

Locus ID: 233424

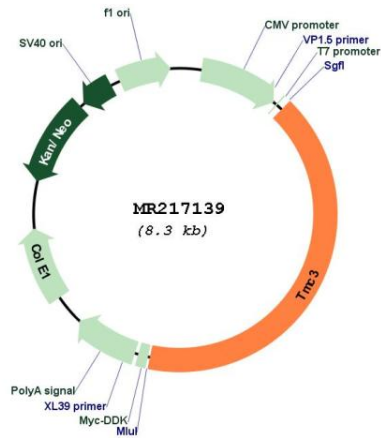
UniProt ID: [Q7TQ69](#)

Cytogenetics: 7 D3

MW: 129.1 kDa

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

Product images:



Circular map for MR217139