

Product datasheet for **MC222437**

Tmc2 (NM_138655) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmc2 (NM_138655) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tmc2
Synonyms:	CWEA2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>MC222437 representing NM_138655

Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCCCCAGTTAAAGAGCTTGACGAGGAAGGTGACAAGTCAGCAAGGAGACCCACAAGGAAACAAA
CCTCCAGAGCTGCATGTCCCAAGACGGGCACCGAGCCCAATCTAGCCGGAAGGATCCTGCTAAGGGTAG
CCCAAGACCAGGGTCTTCCCGAAGAAACAGATGGAACATGGAAGCTATCACAAGGGGTTGCAGGGACAG
AAACCACGAAAGGTGGAGAGGTCTCTACAGGGGAGGAAGAAGGACCGGAGAACTTCCCTTAAGGAGCAGA
GAGCATCTCCAAAGAAGGAGAGGGAGGCTCTGAGGAAGGAGGCAGGCAAGCAGCTGAGAAAACCCAGGTC
CACTTCTTGGGCTCCAGTGTCTCTACTGGAGACTCCCTGTCTGAGGAGGAGCTGGCTCAGATCCTGGAA
CAGGTAGAAGAAAAAAGAAGCTCATCTACCGTGAGGAACAAACCTGGCCCATGGCAAAGAAGCTGA
GGGAAGCTCAGGAAGCCCAAGCCTTTGTGGAAGATATGAAGGAGCCTTGGGAAAGGCAAGGGCAAACA
CCTCTACGCCTACAGGATGATGATGGCTAAGAAATGGGTCAAGTTAAGAGGGACTTTGATAATTTCAAG
ACTCAATGTATTCCCTGGGAAATGAAGATCAAGGACATTGAAAGTCACTTCGGTTCTTCTGTGGCATCTT
ACTTCATCTTTCTCCGATGGATGTATGGAGTTAACCTTGCTCTTTTGGCTTAATATTTGGTCTAGTCAT
CATCCCAGAGGTGCTGATGGGCATGCCCTATGGAAGTATACCCAGAAAGACGGTGCCTCGAGCTGAGGAA
GAGCGAGCCATGGACTTCTGTCTCTTGGGATTTTGGGGCTACATCAAATATTTCTGCTCTCTTCTATG
GCTACTACAACAACCGAGCGACCATTTGGATGGCTGAGGTACAGGCTGCCCATGGCTTACTTTATGGTGGG
GGTCAGCGTGTGGCTACAGCTTGATGATCGTCATTAGTTCGATGGCCAGCAATACCCAGGGTAGCACC
AGTGAGGGGGACAGTGACAGCTTCACATTACAGTTCAAGATGTTACCCAGCTGGGACTACCTCATCGGGA
ATTCAGAGACAGCAGACAACAAATATGTCTCCATCACTACCAGCTTCAAGGAGTCTATAGTGACGAACA
AGAGAGTAACAAAGAAGGGAATATCCACCTGACAAGATTCTCCGCGTCTGGCCAACCTTCTCATTCTC
TGCTGTCTGTGTGAAGCGGTACCTCATTACTTTGTGGTGAAACGGTCCCAGGAGTTCTCCAAATGC
AAAATGTCAGCTGGTATGAAAGGAATGAGGTGGAGATCGTGATGTCTTTGCTAGGGATGTTTTGTCCCC
TCTGTTTGAAACCATCGCTGCCTTGGAGAATTATACCCACGAACTGGGCTGAAGTGGCAGCTGGGCCGC
ATCTTTGCCCTCTTCTGGGAAACCTCTACACGTTTCTCTGGCCCTCATGGACGATGTCCACCTTAAGC
TTTCTAATGAGGAAAAATCAAGAACATCACTCACTGGACCCTGTTAACTATTACAATTCCTCAGGTGG
GAATGAGAGTGTCCCCGGCCACCACACCCCTGCAGATGTGCCAGAGGTTCTTGTGGGAGACAGCT
GTGGGCATTGAGTTTATGAGGCTCACCGTGTCTGACATGTGGTAACATACCTCACCATCTTGGTCGGAG
ATTTCTCCGAGCTTGTGTGTCCGGTTCATGAATCACTGCTGGTGTGGGACCTCGAGGCTGGTTTTCC
CTCATATGCCGAGTTTGATATTAGTGGAATGTGTGGGTTTGATCTTCAACCAAGGAATGATCTGGATG
GGCTCCTTCTATGCTCCAGGACTGGTGGGCATCAATGTCTGCGCTGTTGACCTCCATGTACTTCCAGT
GCTGGGCAGTGATGAGCAGCAACGTTCCCAACGACGTGTGTTTAAAGCCTCCAGATCCAACAACCTCTA
CATGGGCTGCTGCTGTTGGTGTCTTCTCAGCCTCCTGCTGTGGCCTACACCGTATGTCTCTCCCA
CCCTCGTTTGACTGTGGCCCTTCAGTGGGAAAAACAGAAATGTACGATGTCTCCATGAGACCATCGAGA
ACGATTTCCCTAAGTTCTGGGCAAGATCTTTCGCTTCTTGGCAACCCAGGCCTGATCATTCCAGCCAT
CCTGCTAATGTTTCTGGCCATTTACTATCTGAAGTCAAGTTTCAAAAAGTCTTTCTAGAGCTAATGCCCAG
CTGCGAAAGAAGATCCAAGCGTCCGTGAAGTTGAGAAGAACCAATAATCCATCAAGGGAAGGCAATAG
TCACATATTAGAGGACACAATCAAGAACAGCTCCAAAAATGCCACCCAGATACATCTTACTAAAGAAGA
GCCCACATCTCACTCTTCCAGCCAAATCCAGACCCTGGACAAGAAAGCGCAGGGCCCCCACACCTCCAGT
ACTGAGGGTGGGGCTCGCCATCTACCTCCTGGCACCATGTTGGGTCTCAACCACCGAGAGGCAGACGAG
ATTCTGGCCAACCCAGTCTCAGACTTACACAGGCAGGTACCTTCTGGAAGAGAACCAGAGGCCTCA
CAACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms:

https://cdn.origene.com/chromatograms/ja1972_g02.zip

Restriction Sites:

Sgfl-MluI

ACCN:	NM_138655
Insert Size:	2667 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
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_138655.1 , NP_619596.1
RefSeq Size:	3216 bp
RefSeq ORF:	2667 bp
Locus ID:	192140
UniProt ID:	Q8R4P4
Cytogenetics:	2 F1
Gene Summary:	Probable ion channel required for the normal function of cochlear hair cells (By similarity). Component of the hair cell's mechanotransduction (MET) machinery. Involved in mechanosensitive responses of the hair cells (By similarity).[UniProtKB/Swiss-Prot Function]