

Product datasheet for RC226297

TMC5 (NM_001105248) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMC5 (NM_001105248) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TMC5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC226297 representing NM_001105248 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTGCCTACTACAGGAATAACTGGTCTGAGGAAGACCCAGATTACCCTGACTATTCAGGGTCTCAGA
ACCGTACGCAGGGGTATTTGAAAACCAAGGTTATCCAGATGTTCCAGGTCTCTGAACAATCCAGACTA
CCCCGGCACCAGGAGCAATCCATACTCTGTAGCCTCCAGAACACGTCCAGACTATCTGGGTCTCTGGCA
GAACCAATTATCCTAGATCTCTGAGTAATCCAGACTATTCTGGCACCAGAAGCAATGCATCTGCAG
CCTCTAGAACAAGCCCAGACCCTCTACCTCTCTACCAGAGCCAGATTATAGTGAATTCAGACTCATCC
CTACCACCGAGCATCATCCAGACAACCAGACTACCCTGGATCTCAACGAAATCCTGATTTTGCAGGCTCC
AGCAGCAGTGAAACTATGCAGGCTCCAGAACACATCCAGATCATTGCTCCTTAGAACCCGACTACC
CTGGAGCTCAGAGCAACTCTGATCATCCTGGACCCAGAGCCAATTTGAACCATCCAGGATCCAGAAAGAA
TCTGGAACATAAAGTTTTAGAATCAATCCATACGCAGACTCTCTGGGAAAGCCTGATTATCCAGGCGCT
GACATTCAACCTAACTCTCCACCCTTTTTGGGGAGCCAGACTATCCCAGTGCTGAGGACAATCAGAACT
TGCCAAGCACTGGAGAGAACCTGATTATTCAGATGCTGAGAATGGTCATGATTATGGCTCTTCTGAGAC
CCCAAAGATGACCAGGGGGTCTCAGCAGAACATCTTCAATCCAGCCCTCATTTTCGTCACAGGAGTGAT
GACCCCGTGGGCAGTCTTTGGGAGAGAATGATTACCCTGAAGGCATTGAAATGGCATCCATGGAGATGG
CAAATCATATGGCCACTCTCTGCCAGGTGCTCCTGGAAGTGGCTATGTGAACCCGCTTATGTAGGTGA
AAGTGGTCTGTCCATGCTTATGGAACCACCATTTGTCTGAATGTGATTGGCACAAGTCAACCCAAAGGA
CAGAAGTTAATCGCATCCCTTATACCCATGACATCCAGAGACAGAATTAAGCCATCAGGAACCAGCCAA
GGACATGGAAGAGAAAAGGAACCTTAGGAAAATAGTTGACAAAAGAAAAAGCAAACAGACCCATCGTAT
CCTTCAGCTCAATTGCTGTATTCAGTGTCTGAACTCCATTTCCCGGGCTTATCGGAGATCCAAGAACAGC
CTGTGGAAAATTTGAATCCATCAGCCTGTGGCAGAAGACGCTGAAGATCATTGGAGGCAAGTTTGGAA
CCAGCGTCTCTCTATTTCAACTTTCTGAGATGGCTTTTGAAGTTCAACATTTCTCATTATCCTGAA
CTTCAGCTTATCATAATCCCTCAGTTTACCCTGGCCAAAAGAACCCTCCAGTTCAGTGGGCTGGAG
TTTTTCACTGGGGTGGGTTATTTTAGGGACACAGTGATGACTATGGCTTTTACACCAATTCACCATCC
AGCACGGGAACAGCGGGGCATCTACAACATGCAGCTGGCCTACATCTTACAATCGGAGCATGCTTGAC



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CACCTGCTTCTTCAGTTTGTCTGTTACAGCATGGCCAAGTATTTCCGGAACAACTTCATTAATCCCCACATT
TACTCCGGAGGGATCACCAAGCTGATCTTTTGTCTGGGACTTCACTGTCACTCATGAAAAAGCTGTGAAGC
TAAACAGAAGAACTTAGCACTGAGATAAGGGAGAACCTGTCAGAGCTCCGTCAGGAGAATCCAAGTT
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CTGGGGCGGTGCTGTTACTGCCTTTCGTTGTCTCCTGCATTAATCTGGCCGTGCCATCCACTACTCCAT
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GGCTGCTCCATGAGCAGATCATTAAATGAGGGCAAAGATAAAATGTTTCTGATAGAAAAATTGATCAAGCT
GCAGGATATGGAGAAGAAAGCAAACCCAGCTCACTTGTCTGGAAGGAGAGAGGTGGAGCAACAAGGC
TTTTTGCATTTGGGGGAACATGATGGCAGTCTTGACTTGGCATCTAGAAGATCAGTTCAAGAAGGTAATC
CAAGGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC226297 representing NM_001105248
Red=Cloning site Green=Tags(s)

MSAYYRNWSEEDPDYPDYSQNSQRTQGYLKTQGYPDVPGPLNPDYPGTRSNPYSVASRTRPDYPGSLA
EPNYPRLSNPDYSGTRSNAYSAASTRSPDHPTSLPEPDYSEFQSHPHYRASSRQPDYQSGQRNPDFAGS
SSSGNYAGSRTHPDHFGSLEPDYPGAQNSDHPGPRANLNHPGSRKNLEHTSFRINPYADSLGKPDYPGA
DTQPNSPFFGEPDYPSEADNQLPSTWREPDYSDAENGHDYGSSETPKMTRGVLRTSSIQPSFRHRSD
DPVGSWLGENDYPEGIEMASMEMANSYGHSLPGAPGSGYVNPAYVGESGPVHAYGNPPLSECDWHKSPQG
QKLIASLIPMTRSRIKAIARNQPRTEEKRNLRKIVDKEKSKQTHRILQLNCCIQLNSISRAYRRSKNS
LSEILNSISLWQTLKIIGGKFGTSVLSYFNFLRWLLKFNIFSFILNFSFIIIPQFTVAKKNTLQFTGLE
FFTGVGYFRDVMYYGFYTNSTIQHGNSGASYNMQLAYIFTIGACLTTCCFFSLLFSMAKYFRNNFINPHI
YSGGITKLIFCWDFTVTHEKAVKLRKQKNLSTEIRENLSELQENSKLTFNQLLTRFSAYMVAWVSTGVA
IACCAAVYYLAENLEFLKTHSNPGAVLLLPFVVSCLINLAVPCIYSMFRVERYEMPRHEVYVLLIRNIF
LKISIIIGILCYWLNVALSGEECWETLIGQDIYRLLMDFVFSLVNSFLGEFLRRIIGMQLITSLGLQE
FDIARNVLELIYAQTLVWIGIFFPLLPIQMIMLFIMFYSKNISLMMNFQPPSKAWRASQMMFFIFLL
FFPSFTGVLCTLAITIWRLKPSADCGPFRGLPLFIHSIYSWIDLSTRPGYLWVWVIYRNLIGSVHFFFI
LTLIVLIITYLYWQITEGRKIMIRLLHEQIINEGKDKMFLIEKLIKLDMEKKANPSSLVLERREVEQQG
FLHLGEHDGSLDLRSRRSVQEGNPRA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg4766_a01.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001105248

ORF Size: 3018 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_001105248.1](#), [NP_001098718.1](#)

RefSeq ORF: 3021 bp

Locus ID: 79838

UniProt ID: [Q6UXY8](#)

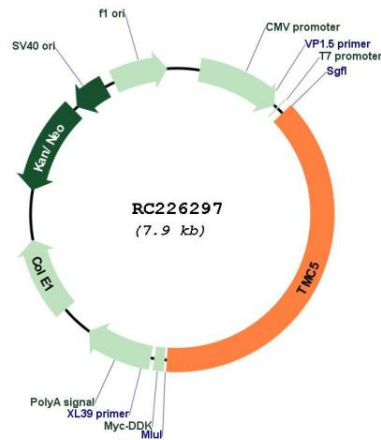
Cytogenetics: 16p12.3

Protein Families: Druggable Genome, Transmembrane

MW: 114.6 kDa

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

Product images:



Circular map for RC226297