

Product datasheet for **RC226272**

TMC5 (NM_001105249) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMC5 (NM_001105249) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TMC5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC226272 representing NM_001105249
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCTGCCTACTACAGGAATAACTGGTCTGAGGAAGACCCAGATTACCCTGACTATTCAGGGTCTCAGA
 ACCGTACGCAGGGGTATTTGAAAACCTCAAGGTTATCCAGATGTTCCAGGTCTCTGAACAATCCAGACTA
 CCCCAGCACAGGAGCAATCCATACTCTGTAGCCTCCAGAACACGTCCAGACTATCCTGGGTCTCTGGCA
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 CCTCTAGAACAAGCCAGACCATCCTACCTCTCTACCAGAGCCAGATTATAGTGAATTCAGAGTCATCC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC226272 representing NM_001105249
 Red=Cloning site Green=Tags(s)

MSAYYRNNWSEEDPDYDPDYSGSQNRQTQGYLKTQGYDPDVPGLNNDYDPGTRSNPYSVASRTRPDYPGSLA
 EPNYPRSLSNPDYSGTRSNAYSAAARTSPDHPTSLPEPDYSEFQSHPHYHRASSRQPDYPGSQRNPDFAGS
 SSSGNYAGSRTHPDHFGSLEPDYPGAQNSDHPGPRANLNHPGSRKNLEHTSFRINPYADSLGKPDYPGA
 DIQPNSPFFGEPDYPSAEDNQNLPTWREPDYSDAENGHYDGSSETPKMTRGVLRSRTSSIQPSFRHRS
 DPVGSWGENDYPEGIEMASMEMANSYGHSLPGAPGSGYVNPAYVGE SGPVHAYGNPPLSECDDWHKSPQG
 QKLIASLIPMTRSRIKAIKRNQPRTEMEKRNLRKIVDKESKQTHRILQLNCCIQLNSISRAYRRSKNS
 LSEILNSISLWQKTLKIIGKFGT SVLSYFNFLRWLLKFNIFSFILNFSFIIIPQFTVAKKNTLQFTGLE
 FFTGVGYFRDVMYYGFYTNSTIQHGNSGASYNMQLAYIFTIGACLTTCCFFSLLFSMAKYFRNNFINPHI
 YSGGITKLIFCWDFTVTHEKAVLKLQKNLSTEIRENLSELRQENSKLTFNQLLTRFSAYMVAWVSTGVA
 IACCAAVVYLAENLEFLKTHSNPGAVLLL PFVVSINLAVPCIYSMFRLVERYEMPRHEVYVLLIRNIF
 LKISIIIGILCYWLNVALSGEECWETLIGQDIYRLLMDFVSLVNSFLGEFLRRIIGMQLITSLGLQE
 FDIARNVLELIYAQTLVWIGIFFCPLLPIQMIMLFIMFYSKNISLMMNFQPPSKAWRASQMMTFFIFLL
 FFPSFTGVLCTLAITIWRIITYLWQITEGRKIMIRLLHEQIINEGKDKMFLIEKLIKLDMEKKANPSS
 LVLERREVEQQGFLHLGEHDGSLDLRSRVSQEGNPRA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

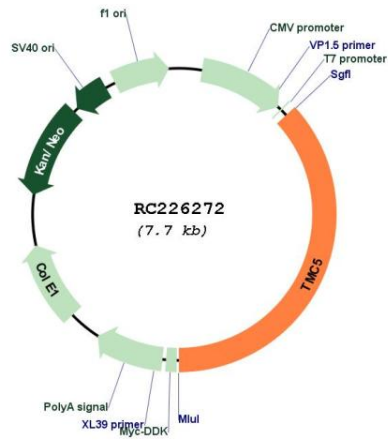
Cloning Scheme:



ACCN: NM_001105249

ORF Size:	2844 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:	<ol style="list-style-type: none">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_001105249.1 , NP_001098719.1
RefSeq ORF:	2847 bp
Locus ID:	79838
UniProt ID:	Q6UXY8
Cytogenetics:	16p12.3
Protein Families:	Druggable Genome, Transmembrane
MW:	107.9 kDa
Gene Summary:	Probable ion channel.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC226272