

Product datasheet for **RR210103**

Tmc5 (NM_001012216) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmc5 (NM_001012216) Rat 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:**

>RR210103 representing NM_001012216
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGTGACGACCAAGTGAATGAAATCATCATAGAAGTGGAGAATGTTCCCTCTGGGTCCAAAGAA
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 AACTGCAGACACCATAGACTGTGAGATCTTCAGCCATGGGAATGACAGAAGGCACAACCGGTTGTTGAGG
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 GAGGCGGTCAATGCAAGAAGAGAATGCCATAGCC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR210103 representing NM_001012216
 Red=Cloning site Green=Tags(s)

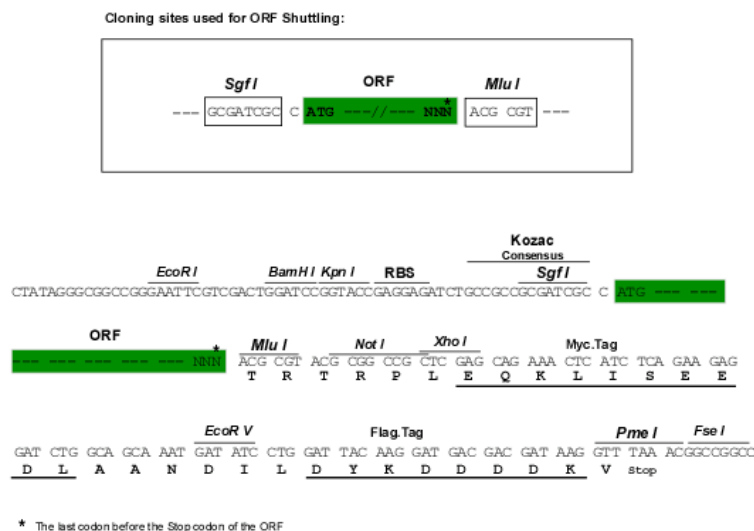
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 FNIFSVMNFSFIIIPQFTVGEKNTLQFTGLEFFTGAGYFRETVMYYGFYTNSTIRHRMGGASYNMQLAY
 IFTIGACLVICFFSLLFSMAKYFRNNFINPHIYSRGIKLIKCFWDFTVTHEKAVKLKQKNLSTEIRENLS
 EIRQENDRLTLNQKLTRFSVHVAWLVTGITAACCVAVYYLAEYNSEFLKTHKNPGAVLLLPFVVSIN
 LAVPRFYSMFRLVERYEIPRQEVYVLLIRNIFLKISIVGILCYWLNIVALSGEECWETLIGQDIYRLL
 MDFVFLADSLGELRLRIGMKFITSLSLQFEDIARNVLELIYAQTLAWLGIFFCPLLPFIQMITLFIM
 FYVKNVSLMMNFQPPSKAWRASQMITFFIFLLFFPSFTGVLCTLAITIWLKPSADCGPFRGLPSFIQSI
 YSWIDTLSHRPGYLWVWYIYNLIGSVHFFILTLIVLIITYLYWQITEGRKVMIRLLHEQIINEGKDKM
 FLIEKLTKLQDIERRANPSTLVLERREVEQQSPLHLEELDAAPDLRLRRSMQEENAIA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001012216

ORF Size: 2274 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_001012216.1](#), [NP_001012216.1](#)

RefSeq Size: 3044 bp

RefSeq ORF: 2277 bp

Locus ID: 365360

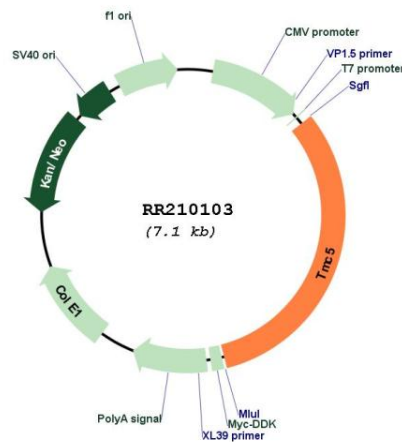
UniProt ID: [Q5M7W4](#)

Cytogenetics: 1q35

MW: 88 kDa

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

Product images:



Circular map for RR210103