

Product datasheet for **RC206922**

TMC7 (NM_024847) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	TMC7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC206922 representing NM_024847
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAGCGAGTCCAGCGCAGTGCCTCCAGCCCGCAGGCCAGCCGGCAGCCGGGTCCATCCAGAGA
 ACCTCTCTCTAGACTCCAGTTGCTTCTTCTCCACCTGTGAACCTCCTCCAAGAAATTGCCAAGCTACCG
 GTCCATTGCACGTAGGAGAACGACTGTCCATTCCCGGGACAAGCAAAGCGGAACCTTTGCTAAAGCCAACC
 GACTCTTACAGCTCCAGCTGGAGGACAGAATCGCTGAAAACCTCAGCAGCCATTCTCTTCGAAATTATG
 CACTGAACATCTCTGAGAAGCGGAGACTAAGGGACATTCAAGAGACACAATGAAGTATCTCTCCGAATG
 GGACCAAGTGGAAAGCGGTATAGCAGCAAGTCTTGGAAAGAGTTCTAGAGAAGGCTCGAGAGATGACGACC
 CACCTGGAGCTGTGGCGGAGGACATCCGAGCATAGAAGGAAATTTGGCACTGGGATTAGTCTCTATT
 TCTCTTCTTGAGATTCCTGGTGTGCTGAATTTGGTGATTTTCTGATCATCTTTATGCTGGTTTTGCT
 CCCAGTCTTACTACGAAATACAAGATACCAACAGCAGCTTCGTGCTCATTCTTTCAAAGACATGGAT
 AAACAATGTACAGTCTATCCAGTAAGCAGTCTGGACTCATTACTTTTACAGTTATATCATAGACTTGC
 TTTCTGGCACTGGTTTCTGGAGGAACTAGCCTCTTTACGGACATTACACCATTGATGGGGTGAAATT
 TCAGAACTTCACTATGATCTGCCCTGGCGTATTTGTTAAGCACAAATCGCCTCCCTGGCCCTGAGCCTT
 CTTTGGATAGTGAAAAGGTGGTGGAGGATTCAAAATCAACCTGATTCGGAGTGAGGAGCACTTTCAGA
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 CAGCAGCTTGGGTACGAGCTCCGAGCAGATCTGGAGGAAGAAAGAATGCGGCAGAAAATAGCAGAAAGG
 ACCTCAGAGAAAACAATACGCATTTACTCTTTGAGACTGTTTTGAACTGTATTGTTCTGGCTGTTTTAG
 GGGCATGCTTTTATGCAATATACGTAGCAACTGTCTTCTCGAAGAGCACATGAAAAAGGAAATCGACAA
 GATGGTTTTTGGAGAGAACCTTTCATATTGTATCTACCGTCTATTGTGATCACGCTGGCCAATTTATC
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 GTTTGCCATTCTGATAACGTCCTGGGATAGTTTACGGGCAACCATCTGCTGGATCGGAGCCTTTTTC
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 TTTACACCTGCAGACCCTCCCCAGGCCGTTTCAAGCATCCAATTCTAATTTCTTCTTCTCTGTTGGTGTT
 GTTGATCGGGCTGTGTTTGGCAATAATACCTCTGACAATCAGCATATCACGCATCCCTTCTCGAAAGCC
 TGTGGGCCGTTTACCAACTTCAACACCACCTGGGAGGTATCCCAAGACGGTGAGCACCTTCCCAAGCT
 CGCTGCAGTCCTTCATCCATGGTGTACATCCGAAGCCTTTGCAGTTCCTTTCTTCATGATTATTTGCCT
 CATCATGTTTTACTTCATTGCCTTAGCTGGAGCACACAAACGGGTGGTCATCCAGCTCCGAGAGCAGCTA
 TCCCTGAAAAGTCGTGACAAGTGCTACCTAATCCAGAACTAACAGAAGCCCAAAGGACATGAGGAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206922 representing NM_024847

Red=Cloning site Green=Tags(s)

MESSGSLQGPSPRQPAVHPENLSDSSCFSPPPVNFLQELPSYRSIARRRTTVHSRDKQSGTLLKPT
 DSYSSQLEDRIAENLSSHSLRNYALNISEKRRLDIQETQMKYLSEWDQWKRYSSKSWKRFLEKAREMTT
 HLELWREDIRISIEGKFGTGIQSYFSFLRFLVLLNLVIFLIIFMLVLLPVLLTKYKITNSSFVLIPFKDMD
 KQCTVYPVSSSLIYFYSYIIDLLSGTGFEETSLFYGHYITDGVKFQNFYIDLPLAYLLSTIASLALSL
 LWIVKRSVEGFKINLIRSEEHFQSYCNKIFAGWDFCITNRSMADLKHSSRLRYELRADLEEEMRQKIAER
 TSEETIRIYSLRFLNCIVLAVLGACFYAIYVATVFSQEHMKKEIDKMVFGENFLFilylPsisVITLANFI
 TPMIFAKIIRYEDYSPGFEIRLTILRCVMRLATICVLVFTLGSKITSCDDDTCDLGCYNQKLYPCWETQ
 VGQEMYKLMIFDFIILAVTLVDFDPRKLLVTCSSCKLIQCWGQQEFaipDNVLGIVYGQITCIGIAFF
 SPLLPaiATLKfiiFYVKEWSLTYCRSPRPFRASNSNFFLLVLLIGLCLaiIPLTISISRIpSSKA
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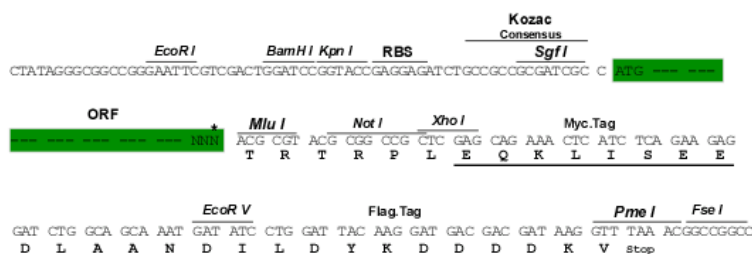
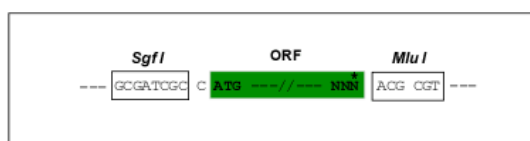
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:

NM_024847

ORF Size:

2169 bp

OTI Disclaimer:

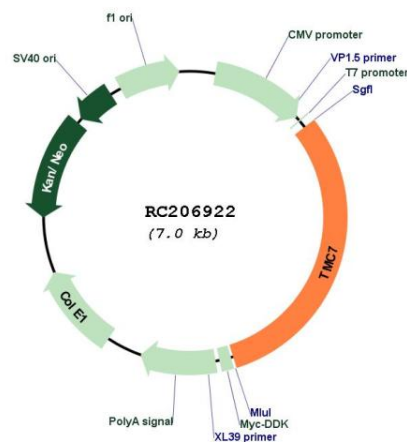
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_024847.4
RefSeq Size:	4426 bp
RefSeq ORF:	2172 bp
Locus ID:	79905
UniProt ID:	Q7Z402
Cytogenetics:	16p12.3
Protein Families:	Transmembrane
MW:	83.5 kDa
Gene Summary:	Probable ion channel.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC206922