

Product datasheet for **RG206922**

TMC7 (NM_024847) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	TMC7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG206922 representing NM_024847
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAGCGAGTCCAGCGCAGTGCCTCCAGCCCGCAGGCCAGCCGGCAGCCGGGTCCATCCAGAGA
 ACCTCTCTCTAGACTCCAGTTGCTTCTTCTCCACCTGTGAATTCCTCCAAGAAATTGCCAAGCTACCG
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 CATCATGTTTTACTTCTATTGCTTGTAGCTGGAGCACACAAACGGGTGGTCTATCCAGCTCCGAGAGCAGCTA
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

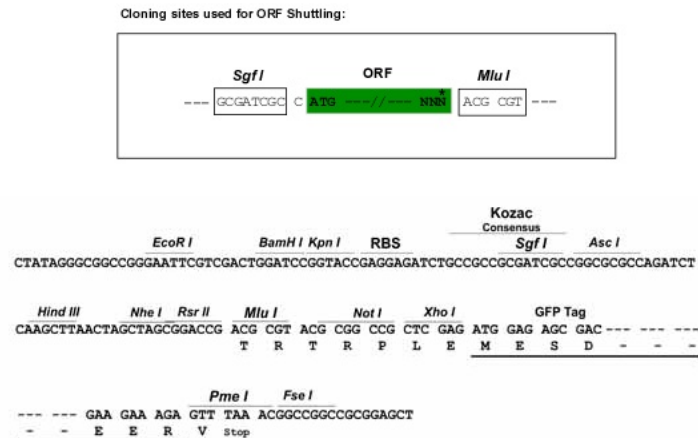
Protein Sequence: >RG206922 representing NM_024847
 Red=Cloning site Green=Tags(s)

MSESSGSALQPRPSRQPAVHPENLSLDSSCFSSPPVNFLQELPSYRSIARRRTTVHSRDKQSGTLLKPT
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 HLELWREDIRSIEGKFGTGIQSYFSFLRFLVLLNLVIFLIIFMLVLLPVLLTKYKITNSSFVLIPFKDMD
 KQCTVYPVSSSGLIYFYSYIIDLLSGTGFLLEETSLFYGHYITDGVKFQNFYDPLAYLLSTIASLALS
 LWIVKRSVEGFKINLIRSEEHFQSYCNKIFAGWDFCITNRSMDLKHSSLRVELRADLEEERMQRKIAER
 TSEETIRIYSLRFLNCIVLAVLGACFYAIYVATVFSQEHMKKEIDKMVFGENLFILYLPISIVITLANFI
 TPMIFAKIIRYEDYSPGFIEIRLTILRCVFMRLATICVLVFTLGSKITSCDDTCDLGGYNQKLYPCWETQ
 VGQEMYKLMIFDFIILAVTLFVDFPRKLLVTCSSCKLIQCWQQQEFAPDNVLGIVYGQTIWIGAFF
 SPLLPATLKFIIIFYVKEWSLLYTCRPSRPFRASNSNFFLLVLLIGLCLAIPLTISISRIPSSKA
 CGPFTNFNTTWEVIPKTVSTFPSSLQSFIHGVTSEAFVPPFMIICLIMFYFIALAGAHKRVVIQLREQL
 SLESRDKCYLIQKLEAQDRMRN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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:

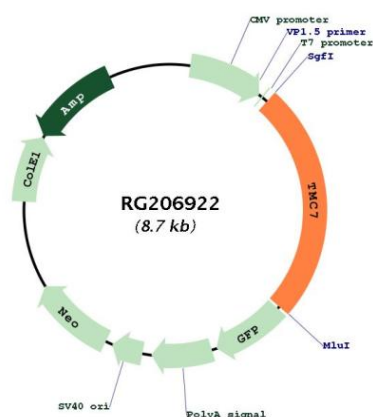
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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
Gene Summary:	Probable ion channel.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG206922