

Product datasheet for **RG206876**

TMC4 (NM_144686) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMC4 (NM_144686) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TMC4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG206876 representing NM_144686
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAAGAAAACCCGACCTTGAATCAGAAGCCTGGGGCTCCTCTAGGGGTGGCTGCCCCCGGGAGG
 CCAGAGGAGGCCATCGCTGTCTTCTGTGCTGAACGAGCTGCCAGTGTGCCACCTTCGGTACCGAGA
 CCTGGGGTGTGCCTTGGGGGGCGCTGGAGGAGGAGGAGGATGGAGGAAGGAGCAGAAAGCCTTC
 ACAGAAGTCAACCAGACAGAGCTGCAGGACCTCACCTTCCCGGAACTGCCCTGGCCCATGCAGGCCA
 GACGGGCACACAGGCAAAGAAATGCCAGCAGGGACCAGGTGGTCTATGGCTCTGGAATAAGACGGACCG
 ATGGGCGCGGCTACTTCGGAGGTCCAAGGAGAAAACAAAGGAAGGCTTGCAGCCTGCAGCCTGGGCG
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 TGCTCCTTCTAACGTGCTGGCCTCTGTGCTCATGGCTGCATGACGCTGCTGCCACCTGGTTGGGAGG
 CGTCCCCAGGCCCTCCCGGCCGACATCTCCTCGCCTGCGGCTCCTATAACCCCACTCCAGGGC
 CTGGTCACCTTTGCCACCCAGCTTTCAACTTGTCTCGGGTGAAGGTTACCTGGAATGGTCCCCTCTCT
 TCTATGGCTTCTACCCGCCCCGCCACGCTGGCGGTACCTACCTGTGCTGGGCTTTGCCGTTGGCCT
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 GCTCTGACCAGCTACAGCCACCGGGTGTCTCGGCCTGGGACTTCGGTCTCTGCGGGACGTCCACGTGC
 GGCTGCGCCAGCGCATCATTTGTACGAATTAAGGTGGAGTGGAGGAGACAGTGGTGGCGGCCAGGC
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 GGTGGGGAGTTTTTTCTGCCCTTACTGCCCTGCTTAACACGGTCAAGTTCTGCTGCTTTTCTACCTG
 AAGAAGCTTACCCTTTCTCCACCTGCTCCCCGGCTGCCGACCTTCCGGGCTCCGCGGCGAATTTCT
 TTTTCCCCTTGGTCCTTCTCCTGGGTCTGGCCATCTCCAGCGTTCCCCTGCTTTACAGCATCTTCTGAT
 CCCGCTTCTAAGCTTTGTGGTCCATTCCGGGGCAGTCTCCATCTGGGCCAGATCCCTGAGTCTATT
 TCCAGCCTCCCTGAGACCACCCAGAATTTCTTCTTCTTCTGGGGACCCAGGCTTTTGTGTGCCCTTC
 TGCTGATCTCCAGCATCCTGATGGCGTACACTGTGGCTCTGGCTAACTCTACGGACGCCTCATCTCTGA
 GCTCAAACGTGAGACAGACGGAGGCGCAGAATAAAGTCTTCTTGGCACGGCGCGCTGTGGCGCTGACC
 TCCACCAAACCGGCTCTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG206876 representing NM_144686
 Red=Cloning site Green=Tags(s)

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MEENPTLESEAWGSSRGWLAPREARGGPSLSSVLNELPSAATLRYRDPGVLPWGALEEEEEEDGGRSRKAF
TEVTQTELDQPHPSRELWPWQARRAHRQRNASRDQVVYVYSGTKTDRWARLLRRSKEKTKEGLRSLQPWA
WTLKRIGGQFGAGTESYFSLRFLLLLNLVSLVLMACMTLLPTWLGAPPGPPGPDISSPCGSYNPHSQG
LVTFATQLFNLLSGEGYLEWSPLFYGFYPPRPLAVTYLCWAFVGLICLLLILHRSVSLKQTLLEAESE
ALTSYSHRVFSAWDFGLCGDVHVRRLRQRIILYELKVELEETVVRQAARVTLGQQARVWLVVLLNLLVY
ALLGAAFYGVYWATGCTVELQEMPLVQELPLLKLGVNYLPSIFIAGVNFVLPVFKLIAPLEGYTRSRQI
VFILLRTVFLRLASLVLLFSLWNQITCGGDSEAEDCKTCGYNKQLPCWETVLGQEMYKLLFDLLTVL
AVALLIQFPRKLLCGLCPGALGRLAGTQEFQVPDEVLGLIYAQTVVWVGSFFCPLLPLNTVKFLLLFYL
KKLTLFSTCSPAARTFRASAANFFPLVLLGLAISSVPLLYSIFLIPPSKLCGPFRGQSSIWAQIPESI
SSLPETQNFLLFGLTQAFVPLLLISSILMAYTVALANSYGRLISELKRQRQTEAQNKVFLLARRAVALT
STKPAL
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_144686

ORF Size: 2118 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_144686.2](#)

RefSeq Size: 2434 bp

RefSeq ORF: 2121 bp

Locus ID: 147798

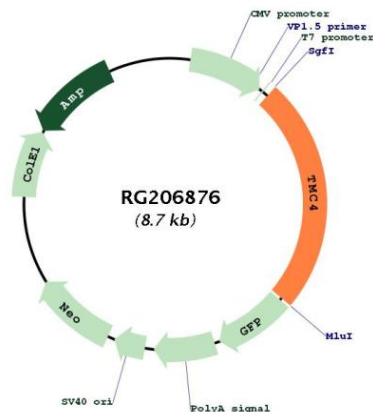
UniProt ID: [Q7Z404](#)

Cytogenetics: 19q13.42

Protein Families: Transmembrane

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

Product images:



Circular map for RG206876