

Product datasheet for **RG200985**

TMEM38A (NM_024074) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TMEM38A (NM_024074) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: TMEM38A
Synonyms: TRIC-A; TRICA
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG200985 representing NM_024074
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCTGCTCTCGGGCTGAGCCTGGGCGAACTGGCGCTCAGCTTCTCGCGGGTGCCGCTCTTCCCCG
 TCTTCGACCTCAGTTACTTCATCGTCTCCATCCTCTACCTCAAGTATGAGCCAGGAGCAGTCGAACTGTC
 CCGGGCCACCCATCGCGTCTGGCTGTGCGCCATGCTGCATTGCTTCGGGAGCTACATCTGGCTGAT
 CTGCTCCTTGGGAGCCACTGATCGATTACTTCAGCAACAACCTCCAGCATCTGCTGGCCTCAGCTGTCT
 GGTACTTGATTTCTTCTGCCCCCTGGACCTCTTCTACAAGTGTGTCTGCTTCTGCCTGTGAAACTCAT
 TTCGTGGCCATGAAGGAGGTGGTGCAGTCCGCAAGATCGCGGTGGGCATCCATCACGCCATCACCCAC
 TACCACCACGGGTGGTTCGTCATGATTGCAACTGGGTGGGTCAAAGGTTCTGGTGTGCCCCATGTCCA
 ACTTTGAGCAGCTGCTCCGAGGGGTCTGGAAGCCAGAGACCAACGAGATCCTGCACATGTCTTCCCCAC
 CAAGGCCAGCCTGTATGGAGCCATCCTCTTACCCTCCAGCAGACCCGCTGGCTCCCAGTGTCCAAGCC
 AGCCTCATCTTCATCTTACCTTGTTCATGGTGTCTGTAAAGGTGTTTCTGACAGCCACCCACTCACACA
 GCTCCCCCTTTGATGCCCTGGAGGGTACATCTGCCCCGTGCTGTTTGGTTCGGCCTGCGGGGTGACCA
 TCACCACGACAACCATGGTGGTCCCACAGCGGTGGTGGCCAGGAGCTCAGCATTTCGCCATGCCCGCC
 AAGTCCAAGGAGGAGTTGAGCGAGGGCTCCAGGAAGAAGAAGCCAAGAAGGCCGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200985 representing NM_024074
 Red=Cloning site Green=Tags(s)

MELLALSLSLGGELALSFSRVLPVFDLSYFIVSILYLKYEPGAVELSRRHPIASWLCAMLHCFGSYILAD
 LLLGEPLIDYFSNNSSILLASAVWYLIFCPLDLFYKCVCFPLPVKLI FVAMKEVVRVKI AVGIHHAHHH
 YHHGWFVMIATGWYKGSVALMSNFEQLLRGVWKPETNEILHMSFPTKASLYGAILFTLQQRWLPVSKA
 SLIFIFTLFMVSKVFLTATHSHSSPFDAL EGYICPVLF GSACGGDHHHDNHGGSHSGGGPGAQHSAMPA
 KSKEELSEGSRKKKAKKAD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024074

ORF Size: 897 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_024074.4](#)

RefSeq Size: 1639 bp

RefSeq ORF: 900 bp

Locus ID: 79041

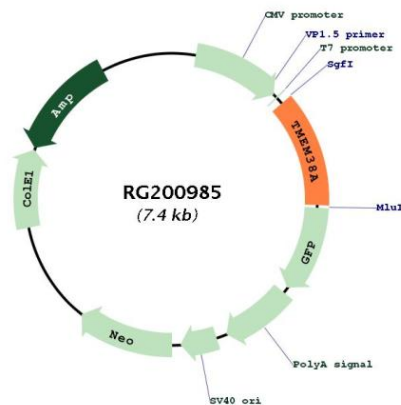
UniProt ID: [Q9H6F2](#)

Cytogenetics: 19p13.11

Protein Families: Transmembrane

Gene Summary: Monovalent cation channel required for maintenance of rapid intracellular calcium release. May act as a potassium counter-ion channel that functions in synchronization with calcium release from intracellular stores.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG200985