

Product datasheet for **RG218234**

TMCC1 (NM_001017395) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	TMCC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG218234 representing NM_001017395
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

[illegible]

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG218234 representing NM_001017395
Red=Cloning site Green=Tags(s)

MEPSGSEQLFEDPDGPGKSQDAEARKQTESEQKLSKMTNALENINVINVGQGLKHLFQHQRSSSVSPHDV
QQIQADPEPEMDLESQNAEIDGVPTHPTALNRVLQQIRVPPKMKRGTSLSHRGKPEAPKQSPQINRK
SGQEMTAVMQSGRPRSSSTTDAPTGSAMMEIACAAAAAAACLPGEEGAERIERLEVSSLAQTSSAVAS
STDGSIHTDSVDGTPDPQRTKAAIAHLQKQILKLTEQIKIAQTARDNNVAEYKLANSADKQQAARIKQV
FEKKNQKSAQTILQLQKKLEHYHRKLEVEQNGIPRPQKDFVRDMHQGLKDVGAKVTFSEGVDVSVKGG
FSSFQATHSAAGAVVSKPREIASLIRNKFSGADNIPNLKDSLEEQVDDAGKALGVISNFQSSPKYGE
EDCSSATSGSVGANSTTGGIavgassskNTLDMQSSGFDALLHEIQEIRETQARLEESFETLKEHYQD
YSLIMQTLQEERYCERLEEQLNDLTELHQNEILNLKQELASMEEKIAYQSYERARDIQEALACQTRIS
KMELOQQQDDVVQLEGLENATRNLLGKLINILLAVMAVLLVVFVSTVANCVVPLMKTRNRTFSTLFLVVF
IAFLWKHWDALFSYVERFFSSPR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001017395

ORF Size: 1959 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_001017395.1](#), [NP_001017395.1](#)

RefSeq Size: 6012 bp

RefSeq ORF: 1962 bp

Locus ID: 23023

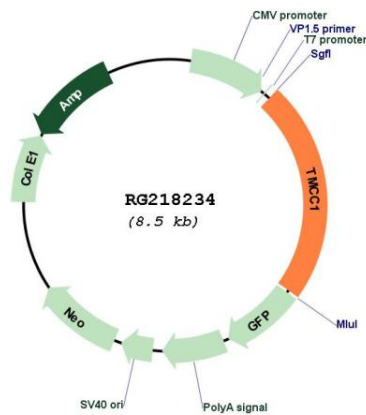
UniProt ID: [O94876](#)

Cytogenetics: 3q22.1

Protein Families: Transmembrane

Gene Summary: Endoplasmic reticulum membrane protein that promotes endoplasmic reticulum-associated endosome fission (PubMed:30220460). Localizes to contact sites between the endoplasmic reticulum and endosomes and acts by promoting recruitment of the endoplasmic reticulum to endosome tubules for fission (PubMed:30220460). Endosome membrane fission of early and late endosomes is essential to separate regions destined for lysosomal degradation from carriers to be recycled to the plasma membrane (PubMed:30220460).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG218234