

Product datasheet for **RG225924**

TMCC1 (NM_001128224) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMCC1 (NM_001128224) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TMCC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG225924 representing NM_001128224
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGAGAGGGACAAGCTTGCATAGTAGCGGGGCAAGCCAGAGGCCCAAGGGAAGTCCCCAAATCA
 ACAGGAAGTCTGGTCAGGAGATGACAGCTGTTATGCAGTCAGGCCGACCCAGGTCTTCATCCACAACCTGA
 TGCACCTACCAGCTCTGCTATGATGAAATAGCTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTACCA
 GGAGAGGAGGGAAGTGGGAGCGGATCGAACGTTGGAAGTAAGCAGCCTTGCCCAACATCCAGTGCAG
 TGGCCTCCAGTACCGATGGCAGCATCCACACAGACTCTGTGGATGGAACACCAGACCCCTCAGCGCACAAA
 GGCTGCCATTGCTCACCTGCAGCAGAAGATCCTGAAGCTCACAGAACAAATCAAGATTGCACAAACAGCC
 CGGGACGACAACGTTGCTGAATACTTGAAGCTTGCCAACAGTGCAGACAAACAGCAGGCTGCCCGCATCA
 AGCAAGTCTTTGAGAAGAAGAACAGAAATCTGCCAAACTATCCTCCAGCTGCAAAAGAACTTGAGCA
 CTACCACAGGAAGCTCAGAGAGGTAGAGCAGAATGGGATCCCCCGGCAGCCAAAGGATGTCTTCAGGGAC
 ATGCACACAGGGTCTGAAGGATGTAGGAGCAAAGGTGACTGGCTTCAAGGTGTGGTGGATAGTGTC
 AAGGTGGGTTTTCCAGCTTCTCCAGGCCACCCATTTCAGCAGCAGGCGCTGTAGTCTCAAAGCCCAGAGA
 GATTGCCTCACTATTCGGAACAAATTTGGCAGTGCAGACAACATCCCCAACCTGAAGGACTCTTTAGAG
 GAAGGGCAAGTGGATGATGCGGGGAAGGCTTTGGGAGTGATTTCAAACCTTCAGTCTAGCCCAAAATATG
 GTAGTGAAGAAGATTGTTCTAGTGCCACTTCAGGCTCAGTGGGAGCCAACAGCACCACAGGGGGCATCGC
 TGTAGGAGCATCCAGTCCAAAAACAAACCCCTGGACATGCAGAGCTCAGGATTTGATGCACTACTACAT
 GAGATCCAGGAGATCCGGGAAACCCAGGCCAGACTAGAGGAATCCTTTGAGACTCTCAAGGAACATTATC
 AGAGGGACTATTCTTAATAATGCAGACCTTACAGGAGGAGCGATATAGATGTGAACGATTGGAAGAACA
 GCTAAATGACCTAACAGAGCTCCACAGAATGAAATCTTGAACCTTGAAGCAGGAAGTGGCAAGCATGGAA
 GAAAAAATCGCGTATCAGTCCTATGAACGGGCCCGGGACATCCAGGAGGCCCTGGAGGCATGCCAGACGC
 GCATCTCCAAGATGGAGCTGCAGCAGCAGCAGCAGCAGGTGGTGCAGCTAGAAGGGCTGGAGAATGCCAC
 TGCCCGGAACCTTCTGGGCAACTCATCAACATCCTCCTGGCTGTGATGGCAGTCCTTTTGGTCTTTGTC
 TCCACTGTAGCCAACGTGTGGTCCCCCTCATGAAGACTCGCAACAGGACGTTTCAGCACTTTATTCCTTG
 TGGTTTTTATTGCCTTTCTCTGGAAGCACTGGGACGCCCTCTTCAGCTATGTGGAACGGTCTTTTCATC
 CCCTAGA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG225924 representing NM_001128224
 Red=Cloning site Green=Tags(s)

MKRGTSLSRRGKPEAPKQSPQINRKSGQEMTAVMQSGRPRSSSTTDAPTSSAMMEIACAAAAAAACLP
 GEEGTAERIERLEVSSLAQTSSAVASSTDGSIHTDSVDGTPDPQRTKAAIAHLQQKILKLTEQIKIAQTA
 RDDNVAEYLKLANADKQQAARIKQVFEKKNQKSAQTILQLQKLEHYHRKLREVEQNGIPRQPKDVFDRD
 MHQGLKDVGAQVTFSEGVVDSVKGGSFSQATHSAAGAVVSKPREIASLIRNKFSGADNIPNLKDSLE
 EGQVDDAGKALGVISNFQSSPKYSEEDCSSATSGSVGANSTTGIAVGASSSKTNTLDMQSSGFDALLH
 EIQEIRETQARLEESFETLKEHYQRDYSIMQTLQEERYRCERLEEQLNDLTELHQNEILNLKQELASME
 EKIAQSYERARDIQEALACQTRISKMELQQQQQVQVQLEGLNATARNLLGKLINILLAVMAVLLVVF
 STVANCVVPLMKTRNRTFSTLFLVVFIAFLWKHWDALFSYVERFFSSPR

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001128224

ORF Size: 1617 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_001128224.2](#), [NP_001121696.1](#)

RefSeq Size: 5470 bp

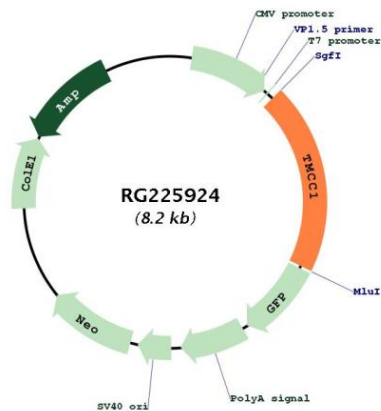
RefSeq ORF: 1620 bp

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 RG225924