

Product datasheet for **RC225924**

TMCC1 (NM_001128224) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMCC1 (NM_001128224) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TMCC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC225924 representing NM_001128224
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGAGAGGGACAAGCTTGCATAGTAGCGGGGCAAGCCAGAGGCCCAAGGGAAGTCCCCAAATCA
 ACAGGAAGTCTGGTCAGGAGATGACAGCTGTTATGCAGTCAGGCCGACCCAGGTCTTCATCCACAACCTGA
 TGCACCTACCAGCTCTGCTATGATGAAATAGCTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTACCA
 GGAGAGGAGGGAAGTGGGAGCGGATCGAACGTTGGAAGTAAGCAGCCTTGCCCAACATCCAGTGCAG
 TGGCCTCCAGTACCGATGGCAGCATCCACACAGACTCTGTGGATGGAACACCAGACCTCAGCGCACAAA
 GGCTGCCATTGCTCACCTGCAGCAGAAGATCCTGAAGCTCACAGAACAAATCAAGATTGCACAAACAGCC
 CGGACGACAACGTTGCTGAATACTTGAAGCTTGCCAACAGTGCAGACAAACAGCAGGCTGCCCGCATCA
 AGCAAGTCTTTGAGAAGAAGAACCAGAAATCTGCCAAACTATCCTCCAGCTGCAAAAGAACTTGAGCA
 CTACCACAGGAAGCTCAGAGAGGTAGAGCAGAATGGGATCCCCCGCAGCCAAAGGATGTCTTCAGGGAC
 ATGCACCAAGGCTGAAGGATGTAGGAGCAAAGGTGACTGGCTTCAGTGAAGGTGTGGTGGATAGTGTC
 AAGGTGGGTTTTCCAGCTTCTCCAGGCCACCCATTTCAGCAGCAGGCGCTGTAGTCTCAAAGCCCAGAGA
 GATTGCCTCACTATTCCGAACAAATTTGGCAGTGCAGACAACATCCCCAACCTGAAGGACTCTTTAGAG
 GAAGGGCAAGTGGATGATGCGGGGAAGGCTTTGGGAGTGATTTCAAACCTTCAGTCTAGCCCAAAATATG
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 GCATCTCAAGATGGAGCTGCAGCAGCAGCAGCAGCAGGTGGTGCAGCTAGAAGGGCTGGAGAATGCCAC
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 TCCACTGTAGCCAACGTGTGGTCCCCCTCATGAAGACTCGCAACAGGACGTTTCAGCACTTTATTCCTTG
 TGGTTTTTATTGCCTTTCTCTGGAAGCACTGGGACGCCCTCTTCAGCTATGTGGAACGGTCTTTTCATC
 CCCTAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC225924 representing NM_001128224
 Red=Cloning site Green=Tags(s)

MKRGTSLSRRGKPEAPKGSPQINRKSGQEMTAVMQSGRPRSSSTTDAPTSSAMMEIACAAAAAACL
 GEEGTAEIERLEVSSLAQTSSAVASSTDGSIHTDSVDGTPDPQRTKAAIAHLQQKILKLTEQIKIAQTA
 RDDNVAEYKLANSADKQQAARIKQVFEKKNQKSAQTILQLQKKLEHYHRKLREVEQNGIPRQPKDVFRD
 MHQGLKDVGAKVTGFSEGVVDSVKGGSFSQATHSAGAVVSKPREIASLRNKFSGADNIPNLKDSLE
 EGQVDDAGKALGVISNFQSSPKYSEEDCSSATSGSVGANSTTGGIAGVASSSKNTLDMQSSGFDALLH
 EIQEIRETQARLEESFETLKEHYQRDYSILMQTLQEERYRCERLEEQLNDLTELHQNEILNLKQELASME
 EKIAYSYERARDIQEALCQTRISKMELQQQQQVVQLEGLNATARNLLGKLINILLAVMAVLLVVFV
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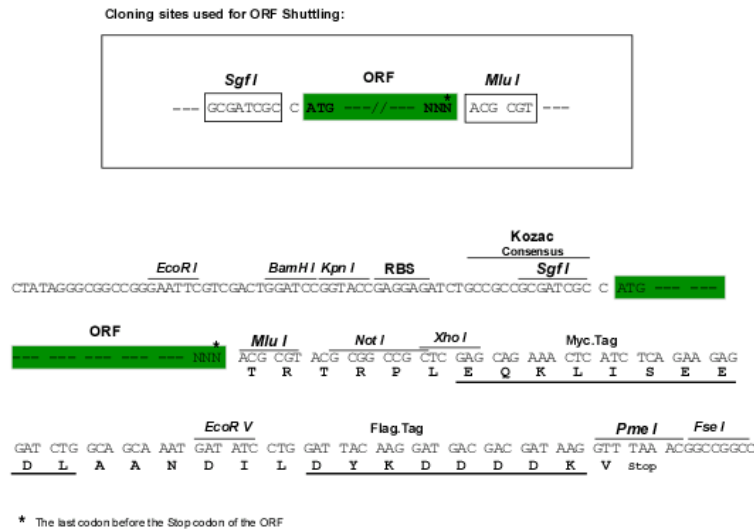
TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8066_c02.zip

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001128224.2](#), [NP_001121696.1](#)

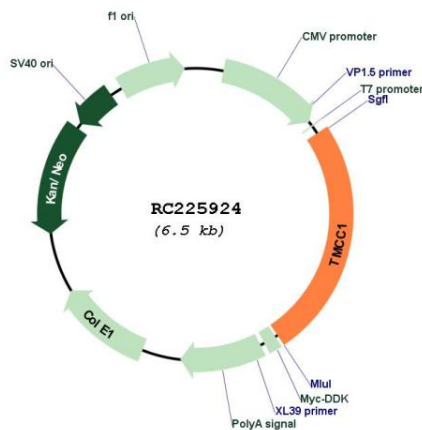
RefSeq ORF: 1620 bp

Locus ID: 23023

UniProt ID: [O94876](#)

Cytogenetics:	3q22.1
Protein Families:	Transmembrane
MW:	59.2 kDa
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 RC225924