

Product datasheet for **RC225376**

TMEM72 (NM_001123376) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	TMEM72
Synonyms:	C10orf127; KSP37
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC225376 representing NM_001123376
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGCAGCTCCAGGTGTTCTGGACTGGGCTGGAATACACCTGCCGGCTCCTGGGCATCACCCTGCTGCAG
TGTTGATCGGCGTGGGCACTGAGACCTTCTCCAGGGCCAGTTCAAAGCCTGGCTTTCTATCTGCTGTT
TACAGGAGCCGCTGTCTCCATATGTGAAGGGCCCTACTTTGTGGCTCAGCTGCTGGCCATCTGCTTCCAG
TGTCACCAAGGGTCCCTGGCAGACAGATAAGGGAGAAAGCCCACTGGCTGGGCTGCTTCCAGAAGTTCC
TGGCCTACCTGCTGCTGTGCGTGCCCTGCTTCTCCACCCGGTCCTGGTCTGGCACGTGACCATCCAGG
CTCCATGCTCATCATCACCGGCTGGCCTACTTCTTCTGAGCAAGCGGAAGAAGAGGAAAGCTGCCCCC
GAGGTGCTGGCCTCCCCAGAGCAGTACACAGACCCCTCTAGCAGCGCTGTGAGCACCACCGGCTCTGGGG
ACACAGAGCAAACCTACACTTTCCATGGGGCCCTCAAGGAGGGGCCAGCTCCCTTTTCATCCACATGAA
GAGTATCCTGAAGGGGACTAAGAAGCCAGTGCCCTCCAGCCCCCAACACCCTGATGGAGCTGAGCCTG
GAGCCAGCCGACTCCCTGGCCAAGAAGAAGCAGGTGCACTTTGAAGACAACCTTGGTCCGCATAGTCCCCT
CCCTCGCTGAAGGTCTGGATGATGGGGACAGTGAGCCAGAGGAGACCACCTCTGACACGACCCCATCAT
TCCCCCTCCCAGGCCCACTTCTCTGTATCTTTACAGCCACCGGCCTGTTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>RC225376 representing NM_001123376

Red=Cloning site Green=Tags(s)

MQLQVFWTGLEYTCRLLGITTA AVLIGVGTETFLQGQFKSLAFYLLFTGA AVSICEGAYFVAQLLAICFQ
CQPGSLADRVREKAHWLGCFQKFLAYLLLSVACFLHPVLVWHVTIPGSMIIITGLAYFLLSKRKKRKAAP
EVLASPEQYTDPS SAVSTTGSGDTEQTYTFHGALKEGPSSLF IHMKSILKGTKKPSALQPPNTLMELSL
EPADSLAKKKQVHFEDNLVRI VPSLAEGLDDGDSEPEETSDTTP IIPPPQAPLFLSSLTATGLF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

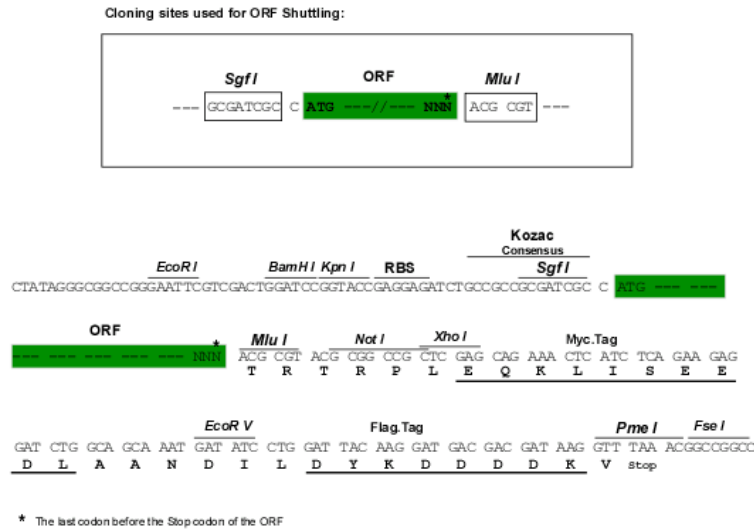
Chromatograms:

https://cdn.origene.com/chromatograms/ja1506_h02.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_001123376

ORF Size:

825 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_001123376.1](#), [NP_00116848.1](#)

RefSeq ORF: 828 bp

Locus ID: 643236

UniProt ID: [A0PK05](#)

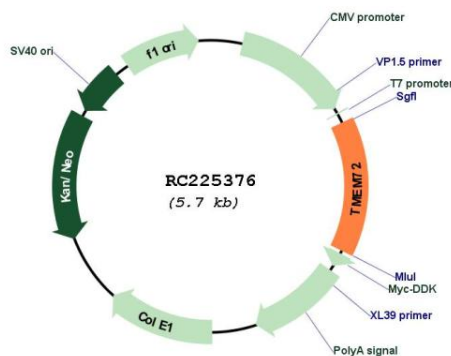
Cytogenetics: 10q11.21

Protein Families: Transmembrane

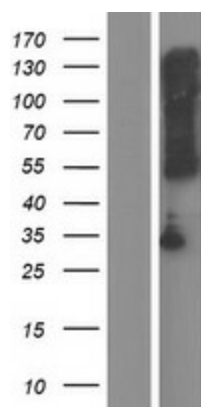
MW: 29.7 kDa

Gene Summary: This gene encodes a transmembrane protein which may be expressed specifically in the kidney. [provided by RefSeq, Sep 2016]

Product images:



Circular map for RC225376



Western blot validation of overexpression lysate (Cat# [LY426613]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225376 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).