

Product datasheet for RC205971

TMEM47 (NM 031442) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: TMEM47 (NM_031442) Human Tagged ORF Clone

Tag: Myc-DDK Symbol: TMEM47

Synonyms: BCMP1; TM4SF10; VAB-9

Mammalian Cell Neomycin

Selection:

Vector:

pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide >RC205971 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGCTTCGGCGGCAGCGCATGGAGGAGGTGCGCGTGTCGGTGCTGACCCCCTTGAAGCTGGTCGGGC
TGGTGTGCATCTTCCTGGCGCTGTCTGGACCTGGGCGCGGCTGAGCCCGGCCTGGGTCACAGCTGA
CCACCAGTACTACCTGTCGTTGTGGGAGTCCTGCCGCAAACCCGCCAGCTTGGACATCTGGCACTGCGAG
TCCACGCTCAGCAGCGGATTGGCAGATTGCTACTCTGGCTTTACTCCTGGGCGGCGCGCCATCATTCTCA
TTGCATTCCTGGTGGGTTTGATTTCTATCTGCGTGGGATCCTTTACCCCAATCAAGTTCATTGCGGT
CATGCTTTTTGCAGCAGTTGTTTTACAGGTTTGCAGCCTGGTCCTTTACCCAATCAAGTTCATTGAAACT
GTGAGCTTGAAAATTTACCATGAGTTCAACTGGGGTTATGGCCTGGCCTGGGTGCAACTATATTTTCGT
TTGGGGGTGCCATCCTTTATTGCCTGAACCCTAAGAACTATGAAGACTACTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC205971 protein sequence

Red=Cloning site Green=Tags(s)

MASAGSGMEEVRVSVLTPLKLVGLVCIFLALCLDLGAVLSPAWVTADHQYYLSLWESCRKPASLDIWHCE STLSSDWQIATLALLLGGAAIILIAFLVGLISICVGSRRRFYRPVAVMLFAAVVLQVCSLVLYPIKFIET

VSLKIYHEFNWGYGLAWGATIFSFGGAILYCLNPKNYEDYY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6322 g05.zip



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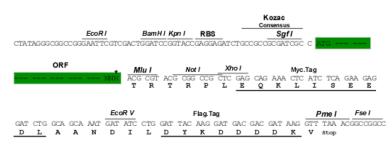


Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_031442

ORF Size: 543 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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. <u>More info</u>

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: <u>NM 031442.2</u>, <u>NP 113630.1</u>

RefSeq Size: 4068 bp
RefSeq ORF: 546 bp
Locus ID: 83604
UniProt ID: Q9BQJ4
Cytogenetics: Xp21.1

Protein Families: Transmembrane

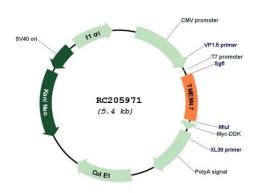
MW: 20 kDa

Gene Summary: This gene encodes a member of the PMP22/EMP/claudin protein family. The encoded protein

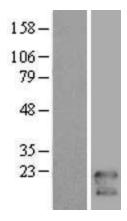
is localized to the ER and the plasma membrane. In dogs, transcripts of this gene exist at high

levels in the brain. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC205971



Western blot validation of overexpression lysate (Cat# [LY410515]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205971 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).