

## Product datasheet for **RG205971**

### TMEM47 (NM\_031442) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TMEM47 (NM\_031442) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** TMEM47  
**Synonyms:** BCMP1; TM4SF10; VAB-9  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG205971 representing NM\_031442  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCTTCGGCGGGCAGCGGCATGGAGGAGGTGCGCGTGTGGTCTGACCCCTTGAAGCTGGTCGGGC  
 TGGTGTGCATCTTCTGGCGCTGTGTCTGGACCTGGGGCGGTGCTGAGCCCGCCTGGGTCACAGCTGA  
 CCACCAGTACTACCTGTCGTTGTGGGAGTCTGCCCAAACCCGCCAGCTGGACATCTGGCACTGCGAG  
 TCCACGCTCAGCAGCGATTGCCAGATTGCTACTCTGGCTTACTCTGGCGCGCTGCCATCATTCTCA  
 TTGCATTCTGGTGGGTTTGATTCTATCTGCGTGGGATCTCGAAGGCGTTTCTATAGACCTGTTGCGGT  
 CATGCTTTTTGCAGCAGTTGTTTTACAGTTTGCAGCCTGGTCCTTACCAATCAAGTTCAATTGAACT  
 GTGAGCTTGAAAATTTACCATGAGTTCAACTGGGTTATGGCCTGGCCTGGGGTGAACCTATATTTTCGT  
 TTGGGGTGCCATCCTTTATTGCCTGAACCCTAAGAACTATGAAGACTACTAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG205971 representing NM\_031442  
 Red=Cloning site Green=Tags(s)

MASAGSGMEEVRSVLTPLKLVGLVLCIFLALCLDLGAVLSPAWVTADHQYYLSLWESCRKPASLDIWHCE  
 STLSSDWQIATLALLLGGAAIILIAFLVGLISICVGSRRRFYRPVAVMLFAAVVLQVCSLVLYPIKFIET  
 VSLKIYHEFNWGYGLAWGATIFSFGGAILYCLNPKNYEDYY

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**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](mailto: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. [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\\_031442.2](#), [NP\\_113630.1](#)

RefSeq Size: 4068 bp

RefSeq ORF: 546 bp

Locus ID: 83604

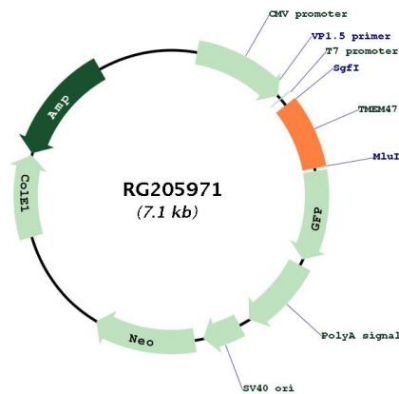
UniProt ID: [Q9BQJ4](#)

Cytogenetics: Xp21.1

Protein Families: Transmembrane

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 RG205971