

## **Product datasheet for RG224098**

## TMEM119 (NM\_181724) Human Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

Tag: TurboGFP

Symbol: TMEM119

Synonyms: OBIF

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG224098 representing NM\_181724

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

CCCAGTGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** 

>RG224098 representing NM\_181724
Red=Cloning site Green=Tags(s)

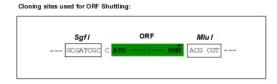
MVSAAAPSLLILLLLLGSVPATDARSVPLKATFLEDVAGSGEAEGSSASSPSLPPPWTPALSPTSMGPQ PTTLGGPSPPTNFLDGIVDFFRQYVMLIAVVGSLAFLLMFIVCAAVITRQKQKASAYYPSSFPKKKYVDQ SDRAGGPRAFSEVPDRAPDSRPEEALDSSRQLQADILAATQNLKSPTRAALGGGDGARMVEGRGAEEEK GSQEGDQEVQGHGVPVETPEAQEEPCSGVLEGAVVAGEGQGELEGSLLLAQGAQGPVGPPESPCACSSVH PSV

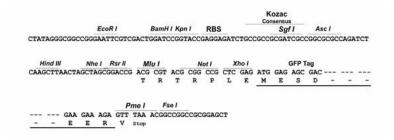
TRTRPLE - GFP Tag - V

**Restriction Sites:** 

Sgfl-Mlul

**Cloning Scheme:** 





**ACCN:** NM\_181724

ORF Size: 849 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 <a href="mailto:customercare">customercare</a> team at <a href="mailto:customercare">customercare</a> team at <a href="mailto:customercare">customercare</a> team at <a href="mailto:customercare">customercare</a> 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



## TMEM119 (NM\_181724) Human Tagged ORF Clone | RG224098

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 5000xq) 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:** <u>NM\_181724.1</u>, <u>NP\_859075.1</u>

RefSeq Size: 2586 bp

RefSeq ORF: 852 bp

**Locus ID:** 338773

UniProt ID: Q4V9L6

Cytogenetics: 12q23.3

**Protein Families:** Transmembrane

**Gene Summary:** Plays an important role in bone formation and normal bone mineralization. Promotes the

differentiation of myoblasts into osteoblasts (PubMed:20025746). May induce the commitment

and differentiation of myoblasts into osteoblasts through an enhancement of BMP2

production and interaction with the BMP-RUNX2 pathway. Upregulates the expression of ATF4,

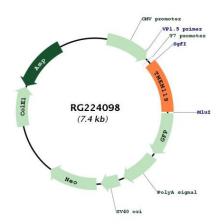
a transcription factor which plays a central role in osteoblast differentiation. Essential for

normal spermatogenesis and late testicular differentiation (By similarity).[UniProtKB/Swiss-Prot

Function]



## **Product images:**



Circular map for RG224098