

Product datasheet for MG200801

Tmem100 (NM 026433) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Tmem100 (NM_026433) Mouse Tagged ORF Clone

Tag: TurboGFP Symbol: Tmem100

Synonyms: 1810057C19Rik; AV011897

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

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

ORF Nucleotide >MG200801 representing NM_026433

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

GAGACGCGAGAGTCAGACCGCTCTTGTGGTAAATCAGAGGTGCTTGTTTGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200801 representing NM_026433

Red=Cloning site Green=Tags(s)

MTEESTKENLGAPKSPTPVTMEKNPKREVVVTTGPLVSEVQLMAATGGAELSCYRCIIPFAVVVFITGIV

VTAVAYSFNSHGSIISIFGLVLLSSGLFLLASSALCWKVRQRNKKVKRRESQTALVVNQRCLFA

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



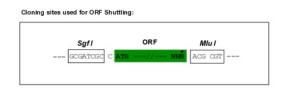
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

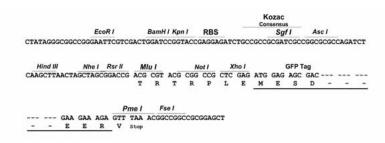
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

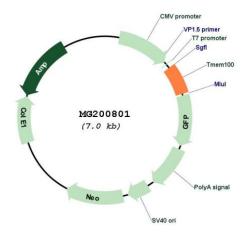


Cloning Scheme:





Plasmid Map:



ACCN: NM_026433

ORF Size: 402 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



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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 026433.2</u>

RefSeq Size: 1765 bp
RefSeq ORF: 405 bp
Locus ID: 67888
UniProt ID: Q9CQG9
Cytogenetics: 11 C

Gene Summary: Plays a role during embryonic arterial endothelium differentiation and vascular

morphogenesis through the ACVRL1 receptor-dependent signaling pathway upon stimulation by bone morphogenetic proteins, such as GDF2/BMP9 and BMP10 (PubMed:22783020). Involved in the regulation of nociception, acting as a modulator of the interaction between TRPA1 and TRPV1, two molecular sensors and mediators of pain signals in dorsal root ganglia (DRG) neurons (PubMed:25640077). Mechanistically, it weakens their interaction, thereby

releasing the inhibition of TRPA1 by TRPV1 and increasing the single-channel open probability

of the TRPA1-TRPV1 complex (PubMed:25640077).[UniProtKB/Swiss-Prot Function]

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