

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 Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG200801 representing NM_026433
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACCGAAGAATCCACAAAAGAGAACCTGGGAGCTCCAAAATCTCCACACCTGTGACAATGGAGAAA
 ACCCCAAGAGGGAAGTTGTGGTCACCACGGACCCTTGGTCAGCGAGGTTAGCTGATGGCCGCCACCGG
 GGGTGCCGAACCTCCTGCTACCGCTGCATCATCCCTTTGCCGTGGTGGTCTTCATCACTGGGATTGTG
 GTCACCGCTGTGGCTTACAGCTTCAATCCCATGGTCCATCATCTCCATCTTCGGCCTGGTCTTCTGT
 CCTCCGGACTGTTTTACTAGCCTCCAGTGCCTTGTGCTGGAAGGTGAGACAAAGGAACAAGAAAGTCAA
 GAGACCGGAGAGTCAGACCGCTTGTGGTAAATCAGAGGTGCTTGTGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200801 representing NM_026433
 Red=Cloning site Green=Tags(s)
 MTEESTKENLGAPKSPTPVTMEKNPKREVVVTTGPLVSEVQLMAATGGAELSCYRCIIPFVVVITGIV
 VTAVAYSFNSHGSIIISIFGLVLLSSGLFLLASSALCWKVRQRNKKVKRRESQ TALVYNQRCLFA

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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:	<ol style="list-style-type: none">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_026433.2
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]