

Product datasheet for **RG223648**

TMEM100 (NM_001099640) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TMEM100 (NM_001099640) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: TMEM100
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG223648 representing NM_001099640
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTGAAGAGCCCATCAAGGAGATCCTGGGAGCCCCAAAGGCTCACATGGCAGCGACGATGGAGAAGA
GCCCAAGAGTGAAGTTGTGATCACCACAGTCCCTCTGGTCAGTGAGATTCAGTTGATGGCTGCTACAGG
GGTACCGAGCTCTCCTGCTACCGCTGCATCATCCCCTTGCTGTGGTTGTCTTCATCGCCGGCATCGTG
GTCACCGCGGTGGCTTACAGCTTCAATCCCATGGGTCTATTATCTCCATCTTTGGCCTGGTTGTTCTGT
CATCTGGACTTTTTTACTAGCCTCCAGTGCCTTGTGCTGGAAAGTGAGACAAAGGAGCAAGAAAGCCAA
GAGACGGGAGAGTCAAACAGCTCTCGTGGCAAATCAGAGAAGCTTGTGGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG223648 representing NM_001099640
Red=Cloning site Green=Tags(s)

MTEEPIKEILGAPKAHMAATMEKSPKSEVVITTVPLVSEIQLMAATGGTELSYRCIIPFVVVFIAGIV
VTAVAYSFNSHGSIIISIFGLVVLSSGLFLLASSALCWKVRQRSKAKRRESQTALVANQRSLFA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-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_001099640.2
RefSeq Size:	2269 bp
RefSeq ORF:	405 bp
Locus ID:	55273
UniProt ID:	Q9NV29
Cytogenetics:	17q22
Protein Families:	Transmembrane
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. 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. 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. [UniProtKB/Swiss-Prot Function]