

Product datasheet for **RN210875**

Tmem100 (NM_001017479) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tmem100 (NM_001017479) Rat Untagged Clone
Tag: Tag Free
Symbol: Tmem100
Synonyms: MGC108778
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN210875 representing NM_001017479
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGACTGAAGAACCCACAAAAGAGAACCTGGGAGGCCCGAAGTCTCCACACCTGTGACAATGGAGAAA
GCCCCAAGAGTGAAGTTGTGGTCACCACGGTCCCCTTGGTCAGTGAGGTTAGCTGACGGCCGCCACCGG
GGGTGCCGAACCTCTTTGCTACCGCTGCATCATCCCCTTTGCCGTGGTGGTCTTCATCACGGGATCGTG
GCACCGCTGTAGCTTACAGCTTCAATCCCATGGTTCGGTCATCTCCATCTTAGGCCTGGTCTTCTGT
CCTCTGGACTGTTTTACTAGCCTCCAGCGGTTGTGCTGGAAGGTGAGACAAAGGAACAAAAAAGTCAA
GAGACGCGAGAGTCAGACGGCTCTGGTGGTAAATCAGAGAAGTTGTTTGCTTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001017479

Insert Size: 405 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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).



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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_001017479.1](#), [NP_001017479.1](#)

RefSeq Size: 1424 bp

RefSeq ORF: 405 bp

Locus ID: 497979

UniProt ID: [Q569C0](#)

Cytogenetics: 10q26

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]