

Product datasheet for **MC204683**

Tmem100 (NM_026433) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tmem100 (NM_026433) Mouse Untagged Clone
Tag: Tag Free
Symbol: Tmem100
Synonyms: 1810057C19Rik; AV011897
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC034841
GGCTGAGAAAAGAGGCAATCCCTGGTCTGTCTTTTACCAATGCCAGTGGGTGACAGGCTCTTTCCAGA
AGTTGAACGGAGCTACGCTGGCAGATCCCTCTCTCCCAAGTCAAGTGGCCTCTCTGGTAATGGACTGCCT
TTCTGTGAGCTTGCATCCTGACCAGGCTTTCCAATCTAGCCTGTGAAGCGAGAT AAGAAAAATCCACA
GAAGAAAAAAAATGACCGAAGAATCCACAAAAGAGAACCTGGGAGCTCCAAAATCTCCACACCTGTGA
CAATGGAGAAAAACCCCAAGAGGGAAGTTGTGGTCACCACGGGACCCCTGGTCAGCGAGGTT CAGCTGAT
GGCCGCCACCGGGGTGCCGAACCTCCTGCTACCCTGCTATCCCCTTTGCCGTGGTGGTCTTCATC
ACTGGGATTGTGGTCACCCTGTGGCTTACAGCTTCAATCCCATGGTTCATCATCTCCATCTTCGGCC
TGGTCCTTCTGCTCCTCCGACTGTTTTACTAGCCTCCAGTGCCTTGTGCTGGAAGGTGAGACAAAGGAA
CAAGAAAGTCAAGAGACGCGAGAGTCAGACCGCTCTTGTGGTAAATCAGAGGTGCTTGTGCTTAAGAC
TGAGTAAGAGCAAACGCGAACGCTCACCCGCCCACTGCTCTAACTCAGTGAACCTATTTCATAGGAAAC
CAGCCCGGTACCGGATGAGCTCAACTTTTGAATGAACTACAAAATGAAAATAGGGCATAGAGAGGACT
GAAAATGAGGGGTCAAGACGGTTCCCCCTTGGTAGGGAATAACTCATCTTTAACGACAAACTTAACCCCTA
AGGGCTATTTCTAACACAGACAGAGGAATCAGCTTGTCTTTTCTGTTAAACGTTTAGGGAGTGTGGGAGA
TGCACAGCATTAAATAACAGTTGGTTCCATTTAGAAAAGTACCCAAGGGAAGAATGGACAAAATAATGAGAG
CCCTGGCAAGTGGTGTTATAAAAACGTTCCACAAAAGCCTACATTGGCTTGGCATTCCCACGTACCTAA
GAAGTTCTGTTATATATACATATATATTTTTTCCAATAAGTTGATTCTTTGCCCCCCCTTTTTAAAA
GAATTTTCACTTTTCAGTAACATCACTAGAGGTACTTTATTTTGAAGAATAGACTAATATTTTTATATTT
TAACAATGGACAATTGTAGATGGTTGTAATGATATGTCAGAAGAAAACAGAAATGTAGGTAAACAGATG
ACACAGGGACAGTTAAATTAATATTGAAATAATCCAATCTAGCACCTTTGATGGCTTTTATACAAAAGTT
CAGTGTGCATTTCACTCAAAAATAATAAATGCTCATGGCTGCTGAACTTAAAAAAAAAAAAAAAAAAAA

Restriction Sites: EcoRI-NotI
ACCN: NM_026433
Insert Size: 405 bp



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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).
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:	BC034841 , AAH34841
RefSeq Size:	1399 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]