

Product datasheet for SC113596

TMEM100 (NM_018286) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM100 (NM_018286) Human Untagged Clone
Tag:	Tag Free
Symbol:	TMEM100
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC113596 sequence for NM_018286 edited (data generated by NextGen Sequencing)

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ATGACTGAAGAGCCCATCAAGGAGATCCTGGGAGCCCCAAGGCTCACATGGCAGCGACG
ATGGAGAAGAGCCCCAAGAGTGAAGTTGTGATCACACAGTCCCTCTGGTCAGTGAGATT
CAGTTGATGGCTGCTACAGGGGGTACCGAGCTCTCCTGCTACCGCTGCATCATCCCTTT
GCTGTGGTTGTCTTCATCGCCGGCATCGTGGTCACCGCGGTGGCTTACAGCTTCAATTCC
CATGGGTCTATTATCTCCATCTTTGGCCTGGTTGTTCTGTCTGACTTTTTTTACTA
GCCTCCAGTGCCTTGTGCTGAAAGTGAGACAAAGGAGCAAGAAAGCAAGAGACGGGAG
AGTCAAACAGCTCTCGTGGCAAATCAGAGAAGCTTGTGGCTTGA
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Clone variation with respect to NM_018286.2

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_018286 unedited GCACGAGGAGAAAGCCTTGCTGTTAGAGGCTCTTTCCATAAGTTGGACGAAGAGGCTC ATGCGTTGCTGTTTCTTGTCTTCCAAGTCAAGTGGTTACTCTGGTAATGGATTGCCTCTC TCCGAGGTGAGTCTTTCACCCCTGGTGGAGACTGTCCAGATCTAGTCTGTAACCCAGCTTA TAAGCACTGTTGTAATAATGACTGAAGAGCCCATCAAGGAGATCCTGGGAGCCCCAAGG CTCACATGGCAGCGACGATGGAGAAGAGCCCCAAGAGTGAAGTTGTGATCACACAGTCC CTCTGGTCAGTGAGATTAGTTGATGGCTGCTACAGGGGTACCGAGCTCTCCTGCTACC GCTGCATCATCCCTTTGCTGTGGTTGTCTTCATCGCCGGCATCGTGGTCACCGCGGTGG CTTACAGCTTCAATTCATGGGTCTATTATCTCCATCTTTGGCCTGGTTGTTCTGTCAT CTGGACTTTTTTTACTAGCCTCCAGTGCCTTGTGCTGAAAGTGAGACAAAGGAGCAAGA AAGCCAAGAGACGGGAGAGTCAAACAGCTCTCGTGGCAAATCAGAGAAGCTTGTGGCTT GAGACTGAATACGACCAAATGGGCCATTGGCCTGGAAAACGTGCTCTGACTTTGTCACC CAATTCACCCAGAACCATGGTGGGAGAGAACAGACTTGGCGTTGGAGCAGACTGGA
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_018286 unedited TACCGGGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTCCAAAATGTAA TATACATTTAATAGCACATTATAAAGTTCCTGACCAAAGACGTTGATTTCTAATTATAA TAGCACAGAAATCCTTTAGAAATTTAGTAAACGTAATTAAGACTATTCAGAAGTAATGAAA AACCAATATGATAAAAAACAAAAATCCTCCAGTAAAGAAGGAACCTGTCCATTTGAGAGAA ATACAATTGAGAACTTGCAAAATGAGACAAGGGAAGATGGCAATTTGGAAGTCAATAGAA ATAACTATAGCAGAAACAACCATTTAAGAAGTTTTAGCAGCAATAAGTATTTATTCT GAATGAAATGTACAGTTGACTTTTATATAAAAAATCATCAAAAGTCTATATTGGATTATT TACTATTAATTTAACCCCAACAGCATCTATTAGCTATAACTTTAATGGTCTCTCTTT ACTTCTGATACATCATTACAAGTGGCTAACACTGTCCAATGTTAAAAATATAAAAAATATT CCTTTTCAAGATAAAGTACCACCAGTGATGAGTTATTTAAAGTATAAAATGAAAACAGAC GCCCGGAATCATGGGTTGAAAAAATATCACAGAATTTTATAGACCTATGCGGAACCCA AGGTAATTTAGATCCTTGAAAAACAATTTTAGGATACATCTTAAAGAACTGGGGTATTT TTTTTGGGGGAAATTGTTAGTGGGCCCAGCCTTACTTGGATTTTCCCCTCTTTTTTG GGCTCTTTCAGGGGGAAACCAACCGGGTAGAAGGGGGCCCTCCTTGACCCACAAGGT TTCTGGAAAAAAGCGGTTTTTCGGTCTAAAATGCCCTCTGGGTAAAGTGGGTGTAAGA AACTGGCTTCTACAAGAAAG
Restriction Sites:	NotI-NotI
ACCN:	NM_018286
Insert Size:	1680 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).
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:	<u>NM_018286.1</u> , <u>NP_060756.1</u>
RefSeq Size:	1670 bp
RefSeq ORF:	405 bp
Locus ID:	55273
UniProt ID:	<u>Q9NV29</u>
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]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 both encode the same protein.