

Product datasheet for **SC316652**

TMEM100 (NM_001099640) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM100 (NM_001099640) Human Untagged Clone
Tag:	Tag Free
Symbol:	TMEM100
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC316652 representing NM_001099640. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGACTGAAGAGCCCATCAAGGAGATCCTGGGAGCCCAAAGGCTCACATGGCAGCGACGATGGAGAAG
AGCCCCAAGAGTGAAGTTGTGATCACCACAGTCCCTCTGGTCAGTGAGATTCAGTTGATGGCTGCTACA
GGGGGTACCGAGCTCTCTGCTACCGCTGCATCATCCCTTTGCTGTGGTTGTCTTCATCGCCGGCATC
GTGGTCACCGCGGTGGCTTACAGCTTCAATTCATGGGTCTATTATCTCCATCTTTGGCCTGGTTGTT
CTGTCATCTGGACTTTTTTACTAGCCTCCAGTGCCTTGTGCGAAAGTGAGACAAAGGAGCAAGAAA
GCCAAGAGACGGGAGAGTCAAACAGCTCTCGTGGCAAATCAGAGAAGCTTGTGCTTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-Mlul
Plasmid Map:	<input type="checkbox"/>
ACCN:	NM_001099640
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.



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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_001099640.1</u>
RefSeq Size:	2269 bp
RefSeq ORF:	405 bp
Locus ID:	55273
UniProt ID:	<u>Q9NV29</u>
Cytogenetics:	17q22
Protein Families:	Transmembrane
MW:	14.4 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 both encode the same protein.</p>