

## Product datasheet for **SC113689**

### **TMEM33 (NM\_018126) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM33 (NM_018126) Human Untagged Clone
Tag:	Tag Free
Symbol:	TMEM33
Synonyms:	1600019D15Rik; Pom33; SHINC-3; SHINC3
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC113689 sequence for NM_018126 edited (data generated by NextGen Sequencing)

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ATGGCAGATACGACCCCGAACGGCCCCAAGGGCGGGCGCTGTGCAATTCATGATGACC
AATAAACTGGACACGGCAATGTGGCTTTCTCGCTTGTTACAGTTTACTGCTCTGCTCTG
TTTGTTCTGCCTCTTCTGGGTTGCATGAAGCAGCAAGCTTTTACCAACGTGCTTTGCTG
GCAAAATGCTCTTACCAGTCTGAGGCTGCATCAAAGATTACCACACTTCCAGTTAAGC
AGAGCATTCTGGCCAGGCTTTGTTAGAGGACAGCTGCCACTACCTGTTGTATTCACTC
ATCTTTGTAATTCCTATCCAGTTACAATGAGTATCTTCCAGTCTTGTATTCTCTTTG
CTTCATGCTGCCACATATACGAAAAAGGTCCTTGACGCAAGGGGCTCAAATAGTTTACCT
CTGCTGAGATCTGTCTTGACAAATTAAGTGCTAATCAACAAAAATATTCTGAAATTCATT
GCTTGCAATGAAATATTCTGATGCCTGCGACAGTTTTTATGCTTTTTAGTGGTCAAGGA
AGTTTGCTCCAACCTTTTATATACTATAGATTTCTTACCCTTCGATATTGCTCTGAAGA
AACCCATATTGTCGGACCTTATTTAATGAACTGAGGATTGTTGTTGAACACATAAATG
AAACCTGCTTGCCCACTGTTTGTGAGAAGACTTTGTCTCCAGAGCATTGCCTTTATAAGC
AGATTGGCACCAACAGTTCCATAG
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Clone variation with respect to NM\_018126.2



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_018126 unedited</p> <pre>TTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGATAACCTGGAGCCGG CGGCGTAGGTTGGCTCTTTAGGGCTTACCCCCAAGCTCCACCTTCGCTCCCGTCTTTCT GGAAACACCGCTTTGATCTCGGCGGTGCGGGACAGGTACCTCCCGGTGCTGCGGGTGCC CTGGATCCAGTCGGCTGCACCAGCGAGCGAGACCCTTCCTGGTGGAGGCTCAGAGTTC CGGCAGGGTGCATCCGGCCTGTGTGTGGCGCGAGGCAGGGAAGCCGGTACCCGGTCTGT GCCCCAGCGCTGACGTTTTCTCTCCCCTTTCTCTCTCTTCGCGGTTGCGGCGTCGCAGA CGCTAGTGTGAGCCCCATGGCAGATACGACCCGAAACGCCCCAAGGGGCGGGCGCTG TGCAATTCATGATGACCAATAAACTGGACACGGCAATGTGGCTTTCTCGTTGTTACAG TTTACTGCTCTGCTCTGTTTGTCTGCCTCTTCTGGGTGCATGAAGCAGCAAGCTTTT ACCAACGTGCTTTGCTGGCAATGCTCTTACCAGTGTCTGAGGCTGCATCAAAGATTAC CACACTCCAGTTAAGCAGAGCATTCTGGCCAGGCTTTGTTAGAGGACAGCTGCCACT ACCTGTTGATTTACTCATCTNTGTAATTCCTATCCAGTTACAATGAGTATCTTCCCAGT CTTGGTATTCTTTGCTTCATGCTGCCACATATACGANAAAAGTCTTGACGCAAGGG GCTCANATAGNTTACCTCTGCTGAGATCTGTCTTGACAATAAGTGCNTATCAACANAT ATTCTGAAAATCATTGCTGCATGAAATATCCTGATGCTGCGACGTTTTATGCTTTTGT GGTCAAGGAGTTGCCTCACCTNNATACTTAGATTTCTACCTCGAAATCGCTCGAGAAC CATATGTCGACT</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_018126 unedited</p> <pre>GGGTGGTTGGGGAAAACAGACCAATATAAAAAAGGGNCTCTGTNTNGTACATTTTTTT GTTCTANAAGTTTAGTTTCTAAAACCATGGCTTACTTACATAGTGACAATAAGACTAGCC ACATACACAAAATCAACTGTATGAGGCTGCTTCTCCAGCTTAGTGGACAAATATTACAAA AATACAAAATAGCTGATTATAGTTAAGCTATCAAGTATAATTTTTTCATGATTTATCCT AAGAATATCCCCTTTTTATAGATAAGGAGATGAACAAAAATAAACTAATGTTACTGATA AATTACTAATGAATGATTTGAGAAATCCAATTACATGCAGACAGAACTGGTCACAAA AACCATTACATTTCTCTATACTAAAAGTACAATGTTTTAAACATTTCCAATCATGCAA CGGTAATGAAGATCAGCATGAATTTTATAAGAGTTGATGGGAGTTCAATGAACAGGATTT AACACATTTTACAACCCAAATCAAAGTTGAATAATACATCCAATCCCCTAAATTTATCT ATGCGTTGAGACTGAAATGCACATTATCCCCCACAACCTTCCCCTACCCCATTTCCCA ATCAATTACCTTACCTATAAAACCTTCCATTTAACCTTTTAAAGTCAGATTTGATGGGTAA ACATGTAATCTACAGTATACCTCTCCATTATTATTTACGATAGACACACCTATAGTCAG ATGCTGAATCTTACATTACCTTTTCCAAAAGGCATTCTAAACTGTTGGCAATTTGTCT ATGAAAATTCAAGCCCTAATAAACCAAAGAAAAGTGGTAAAGTTAATTACCTGAACCTTAG GTATTTTCTACCAACCTTTTATACCAATCACTCTTTTTTGTACCATTAGTAATAATA AGGAATTTCTGCTTTGAGAAAAGNTTTTTCAATGGGCTCTTTAGAAAGGACAAGACTTG TT</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_018126
<b>Insert Size:</b>	3260 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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:**

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\\_018126.1](#), [NP\\_060596.1](#)

**RefSeq Size:** 2684 bp

**RefSeq ORF:** 744 bp

**Locus ID:** 55161

**UniProt ID:** [P57088](#)

**Cytogenetics:** 4p13

**Domains:** UPF0121

**Protein Families:** Transmembrane

**Gene Summary:** Acts as a regulator of the tubular endoplasmic reticulum (ER) network. Suppresses the RTN3/4-induced formation of the ER tubules (PubMed:25612671). Positively regulates PERK-mediated and IRE1-mediated unfolded protein response signaling (PubMed:26268696). [UniProtKB/Swiss-Prot Function]