

## Product datasheet for **SC113078**

### **TMEM159 (NM\_020422) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TMEM159 (NM_020422) Human Untagged Clone
Tag:	Tag Free
Symbol:	TMEM159
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_020422, the custom clone sequence may differ by one or more nucleotides

```
ATGGCAAAGAGGAGCCCCAGAGTATCTCAAGGGACTTGCAGGAAGCTGCAGAAGAAGCTGTCTCTGCTGA  
TAGACTCCTTCCAGAATAACTCAAAGGTGGTGGCCTTTATGAAGTCTCCAGTGGGTGAGTACTTGGACAG  
CCATCCGTTTCTGGCCTTACCTTGCTGGTGTTTATTGTCATGTCGGCCGTTCTGTTGGATTCTTCCTG  
CTCATCGTGGTGCTTACCACCCTGGCTGCTGCTGGGGTGCATAATATTGGAAGGATTGGTCATCTCTG  
TGGGTGGCTTCTCACTGCTCTGCATCCTCTGTGGTTTGGGCTTCGATCACTCGCCATGTCGGGGATGAT  
GATAGCATCTTATGTAGTGGTCTCCAGCCTCATCAGCTGCTGGTTTTCTCCAGGCCACTGACACAGCAA  
AACACCAGTTGTGACTTCTGCCAGCCATGAAGTCTGCAGAATTCGAGGGGCTTTACCAGGAATGA
```



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_020422 unedited  
 NTTTTCTGAATATTTGGAATACGACTCACTATAGGGCGGCCCGGATTCCGGCACGAGGCT  
 TGTTCTCTCTCTGCCTCTCTTCGCTTCGCTGCAAACGCGGTGGGGGCTGCTCGGCGGT  
 CAGGAGCAGCAAGAGACAGAGCGACATGAGAGATTGGACCGCGGGCTGCACTGGAGAATT  
 TACTGGTAGGATAATTCATCCCTAAAGAGATTGAAGTGAGCTTCAAGATGGCAAAAGAGG  
 AGCCCCAGAGTATCTCAAGGGACTTGCAGGAAGTGCAGAAGAAGCTGTCTCTGCTGATAG  
 ACTCCTTCCAGAATAACTCAAAGGTGGTGGCCTTTATGAAGTCTCCAGTGGGTCACTACT  
 TGGACAGCCATCCGTTTCTGGCCTTACCTTGGTGGTTCATTGTCATGTCGGCCGTTT  
 CTGTTGGATTCTCTGCTCATCGTGGTGTACCACCCTGGCTGCTCTGCTGGGGTCA  
 TAATATTGGAAGGATTGGTCATCTCTGTGGGTGGCTTCTCACTGCTCTGCATCCTCTGTG  
 GTTTGGGCTTCGTACTCGCCATGTCGGGGATGATGATAGCATCTTATGTAGTGGTCT  
 CCAGCCTCATCAGCTGCTGGTTTTCTCCAGGCCACTGACACAGCAAAACACCAGTTGTG  
 ACTTTCTGCCAGCCATGAAGTCTGCAGACTTCGAGGGGCTNTACCAGGAATGAGTGACTG  
 CTCAGAGGCCGGCTTCTNTTTCAGTACTGGCTGGATCATACTCACCCCTGGGATTATG  
 GCTTANAAGAAGGGNCTGGGTANGCAGCACTCCTTGGNCTGTGTCTCTCGCTTTTCACT  
 TACTTGTANGATCCCGCACAGCCAATTAGGGATNGNNGTGNNTCTGNNNGTGNTNCCATG  
 TAAAGAGCGCAGAGAATGCGATG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_020422 unedited  
 AGGGTTGTTTCTACTTACTAGTGCCCTTAGCATTTTTATTTAAGAAAGGCTTATGCTGG  
 GCACAGTGGCTCACGCCTGTAATCCCAGCACTTGGGAGGCCAAGGCAGGTGGAGCACCT  
 GAGGTCAGGAGTTGAGACTAGCCTGACCAACATGGTGAACCCCATCTGACTAAAAAA  
 AATACAAAAAAACTAGCCGGGCACGGTGGCGGGTGCCTGTAATCCCAGCTACTTGGGA  
 GGCTGAGGCACGATACTCACTTGAACCTGNGAGTTGGAGTTGCAGTGATCCGAGACTG  
 CACCGTTGCATCCAGCCTGAGCAACAAGATGGAACTCCGTCCATAAAAATAAAAAAA  
 AAAAAAGAAATGAACCTACTTAAAGGACAAGCTCTTAGACAATACAACAGTACCAAGCG  
 CAAATATGTAAGATTAACAGTCTTAACAGTACTCAACAGTTACAGTGGAAACTACAC  
 CTTTAGACTTTTTGAAAATACTCTTGGCCACAAAGTTACATTTGGACTCTATTTTTTAC  
 TTTGGAGAGGCCAAATGTCGCTGGTTTTCTGATAATAAGCAATTACCCAGAAGGGCT  
 GTCCTGTTAGATTTTTCTTTCATTTGGTTCACATGACTGAAAAATTAACAGTTGCCCTC  
 ATTTCTGAAACAAAAAATTTAACTATCCCTGTTGCTCCCATTTGGGACCCGTTGAAATT  
 AATCCTGAAGCCTTGGGGTCAACGGGCTAACTTTAAATCCCATAACCCGCCAGTGAAT  
 TTTCTCTCTGGGCAGGCCAATTTTTAAACCTTACTTCTTTTCTGCTGTTTTTCTGGG  
 ATCCCACTTTTACCACCCTTCCCTATTGGCGGCGCGGACCCCTAGTTGGAAAATTGT  
 AGAGCTCTCAAGGCGTGTCCCTCCTCCCCCTTTTTTCTTCTCCCGGGGGTTGT  
 CTTTCTCTCTTCTTAATAATCN

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_020422

**Insert Size:**

1830 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_020422.3</a> , <a href="#">NP_065155.2</a>
<b>RefSeq Size:</b>	1811 bp
<b>RefSeq ORF:</b>	486 bp
<b>Locus ID:</b>	57146
<b>UniProt ID:</b>	<a href="#">Q96B96</a>
<b>Cytogenetics:</b>	16p12.3
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	<p>Plays an important role in the formation of lipid droplets (LD) which are storage organelles at the center of lipid and energy homeostasis (PubMed:31708432). In association with BSCL2/seipin, defines the sites of LD formation in the endoplasmic reticulum (PubMed:31708432).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) uses an alternate splice site in the 5' UTR and lacks an alternate in-frame exon in the 5' coding region, compared to variant 1. The encoded isoform (2) is shorter than isoform 1. Variants 2, 3, and 4 all encode the same isoform (2).</p>