

## Product datasheet for **SC117068**

### TMEM59 (NM\_004872) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM59 (NM_004872) Human Untagged Clone
Tag:	Tag Free
Symbol:	TMEM59
Synonyms:	C1orf8; DCF1; HSPC001; PRO195; UNQ169
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 SC117068 sequence for NM_004872 edited (data generated by NextGen Sequencing)

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ATGGCGGCGCCGAAGGGGAGCCTCTGGGTGAGGACCCAACTGGGGCTCCCGCGCTGCTG
CTGCTGACCATGGCCTTGGCCGGAGGTTTCGGGGACCGCTTCGGCTGAAGCATTTGACTCG
GTCTTGGGTGATACGGCGTCTTGCCACCGGCCTGTCAGTTGACCTACCCCTGCACACC
TACCCTAAGGAAGAGGAGTTGTACGCATGTCAGAGAGGTTGCAGGCTGTTTTCAATTTGT
CAGTTTGTGGATGATGGAATTGACTTAAATCGAACTAAATTGGAATGTGAATCTGCATGT
ACAGAAGCATATCCCAATCTGATGAGCAATATGCTTGCCATCTTGTTGCCAGAATCAG
CTGCCATTCGCTGAACTGAGACAAGAACAATTATGTCCTGATGCCAAAAATGCACCTA
CTCTTTCCTCTAACTCTGGTGAGGTCATTCTGGAGTGACATGATGGACTCCGCACAGAGC
TTCATAACCTCTTCATGGACTTTTTATCTTCAAGCCGATGACGGAAAAATAGTTATATTC
CAGTCTAAGCCAGAAATCCAGTACGCACCACATTTGGAGCAGGAGCCTACAAATTTGAGA
GAATCATCTCTAAGCAAAATGTCCTATCTGCAAATGAGAAATTCACAAGCGCACAGGAAT
TTTCTTGAAGATGGAGAAAGTGATGGCTTTTTAAGATGCCTCTCTCTTAACTCTGGGTGG
ATTTTAACTACAACCTCTTGTCTCTCGGTGATGGTATTGCTTTGGATTTGTTGTGCAACT
GTTGCTACAGCTGTGGAGCAGTATGTTCCCTCTGAGAAGCTGAGTATCTATGGTGACTTG
GAGTTTATGAATGAACAAAAGCTAAACAGATATCCAGCTTCTTCTCTTGTGGTTGTTAGA
TCTAAAACCTGAAGATCATGAAGAAGCAGGGCCTTACCTACAAAAGTGAATCTTGCTCAT
TCTGAAATTTAA

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Clone variation with respect to NM\_004872.3



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_004872 unedited  
 GGTGCGTTTTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGCGATGGTTG  
 AATTCCCCTCCTCACGCCAGCCTAGGAGAAGAAGTTCGTAGTCCCAGAGGTGAGGCAGGA  
 GGCGGCAGTTTCTGGCGGGTGAGGGCGGAGCTGAAGTGACAGCGGAGGCGGAAGCAACGG  
 TCGGTGGGGCGGAGAAGGGGGCTGGCCCCAGGAGGAGGAGAAACCTTCCGAGAAAACA  
 GCAACAAGCTGAGCTGCTGTGACAGAGGGGAACAAGATGGCGGCGCCGAAGGGGAGCCTC  
 TGGGTGAGGACCCAACCTGGGGCTCCCGCCGCTGCTGCTGCTGACCATGGCCTTGGCCGGA  
 GGTTTCGGGGACCGCTTCGGCTGAAGCATTGACTCGGTCTTGGGTGATACGGCGTCTTGC  
 CACCGGGCCTGTCAAGTTGACCTACCCCTTGACACCTACCTAAGGAAGAGGAGTTGTAC  
 GCATGTCAGAGAGGTTGCAGGCTGTTTTCAATTTGTCAGTTTGTGGATGATGGAATTGAC  
 TTAATCGAACTAAATTGGAATGTGAATCTGCATGTACAGAAGCATATCCCAATCTGAT  
 GAGCAATATGCTTCCATCTTGGTTGCCAGAATCAGCTGCCATTCGCTGAACTGAGACAA  
 GAACAACCTATGTCCTGATGCCAAAAATGCACCTACTCTTCTCCTACTCTGCNGAGG  
 TCTTTCTGGAGTGACATGATGGACTCCGACAGAGCTTCATAACCTCTTCATGGACTTTTT  
 ATCTTCAAGCCGATGACCGAAAAATAGTTATATCCAATCTAACCCAGAATCCATTACCC  
 ACCCTTTTGGAGCCAGAGCCTACAAATTTAGAGAACATCTCTTAACCAATGTTCC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_004872 unedited  
 NNNNTTAGCTATGNNACCGCGGCCGCTTCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTC  
 AGCACATAATTATTCAAATAAAATTTAATGATTTCAAGTTCCTGAAAATGTAGTGCATT  
 AAAGGTCAATTTCTGCTAAATTTCAAATTACAGATTTGTGGCCATTCTGAGCAGAAGC  
 ATCAATTTCTACTAAATATTCAGCTTGTAACTAAGGTAAGTACAGTATCATGGCAGGAG  
 GTGAGAAGGAGCAATGATCAGCTCATAGCTAAGAAAAGGAAAAAACAATAACCAAAGC  
 AAAAAACAAAATAGCTACAGATATTAGTAAAATAATAACAATCCCAAACATCCACCTC  
 TTAATACTACTACAAAAACAATACCAATAAAGTTATAGCAAATACAGTCTTCACAGATTTG  
 AGTAACTTTATTTGCATTTTATAGTGATTTCTTAAGGCCTATATCCAATGAAACCATTTT  
 AAAAGCTCTATGAGGAGTGGAATTTTAGATGTCTATTACACTTGTCTTTTAAAAGAAAA  
 TGCTTAAATTTGAGAATGAGCAAGATTCACCTTTGTAGGTAGAGGCCCTGCTTCTTCATG  
 ATCTTCAGTTTTAGATCTAACAACCACAAGAGAAGAAGCTGGATATCTGTTTAGCTTTTG  
 TTCATTCATAAACTCCAAGTCACCATAGATACTCAGCTTCTCAGAGGGAACATACTGCTC  
 CACAGCTGTAGCAACAGTTGCACAACAATCCAAGCATACCATACCCGAGAGGACAAGA  
 GTTGTAGTTAAAATCCACCCAGAGTTAAGAGAGAGGCATTCTTAAAAGCCATCACTTTCT  
 TCATCTTCAGAAAATCCTGTGCGCTTGTGATTTCTCATTGCAGATTGAGACATTTGCTTA  
 AAG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_004872

**Insert Size:**

1180 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:**

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\\_004872.3](#), [NP\\_004863.2](#)

**RefSeq Size:** 1709 bp

**RefSeq ORF:** 972 bp

**Locus ID:** 9528

**UniProt ID:** [Q9BXS4](#)

**Cytogenetics:** 1p32.3

**Protein Families:** Transmembrane

**Gene Summary:** This gene encodes a protein shown to regulate autophagy in response to bacterial infection. This protein may also regulate the retention of amyloid precursor protein (APP) in the Golgi apparatus through its control of APP glycosylation. Overexpression of this protein has been found to promote apoptosis in a glioma cell line. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2015]  
Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region compared to variant 1. The encoded isoform (2) is one amino acid shorter and includes a single amino acid substitution compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.