

Product datasheet for **SC114470**

TMEM66 (SARAF) (NM_016127) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM66 (SARAF) (NM_016127) Human Untagged Clone
Tag:	Tag Free
Symbol:	TMEM66
Synonyms:	FOAP-7; HSPC035; TMEM66; XTP3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114470 sequence for NM_016127 edited (data generated by NextGen Sequencing)

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ATGGCCCGCAGCTGCGGGCCGGGAGCGGCCGGGTACTGCTTGCTCCTCGGCTTGCAATTTG
TTTCTGCTGACCGCGGGCCCTGCGCTGGGCTGGAACGACCTGACAGAATGTTGCTGCGG
GATGTAAAGCTCTTACCCTCCACTATGACCGCTATACCACCTCCCGCAGGCTGGATCCC
ATCCACAGTTGAAATGTGTTGGAGGCACAGCTGGTTGTGATTCTTATACCCAAAAGTC
ATACAGTGTGAGAACAAAGGCTGGGATGGGTATGATGTACAGTGGGAATGTAAGACGGAC
TTAGATATTGCATACAAATTTGGAAAACTGTGGTGAGCTGTGAAGGCTATGAGTCCTCT
GAAGACCAAGTATGTAAGAGGTTCTTGTGGCTTGGAGTATAATTTAGATTATACAGAA
CTTGGCCTGCAGAACTGAAGGAGTCTGGAAGCAGCACGGCTTTGCCTCTTCTCTGAT
TATTATTATAAGTGGTCCTCGGCGGATTCTGTAAATGAGTGGATTGATTACCATCGTG
GTACTCCTTGGGATCGCCTTTGTAGTCTATAAGCTGTTCTGAGTGACGGGCAAGTATTCT
CCTCCACCGTACTCTGAGTATCCTCCATTTCCACCGTTACCAGAGATTACCAACTCA
GCAGGACCTCCTCCCCAGGCTTTAAGTCTGAGTTCACAGGACCACAGAATACTGGCCAT
GGTGCAACTTCTGGTTTTGGCAGTGCTTTACAGGACAACAAGGATATGAAAATTCAGGA
CCAGGGTCTGGACAGGCTTGGGAAGTGGTGAATACTAGGATATTTGTTTGGCAGCAAT
AGAGCGGCAACACCCTTCTCAGACTCGTGGTACTACCGTCCTATCCTCCCTCCTACCCT
GGCAGTGGGAATAGGGCTTACTACCCCTTCATGGAGGCTCGGGCAGCTATTCGGTATGT
TCAAACCTCAGACACGAAAACAGAACTGCATCAGGATATGGTGGTACCAGGAGACGATAA

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Clone variation with respect to NM_016127.4



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_016127 unedited
 NGGGTCGGAATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGGGCTGCA
 GCTCTGCAGTCGGGCCGTTCTTCGCCGCCGCCAGGGTAGCGGTGTAGCTGCGCAGCGTC
 GCGCGCGCTACCGCACCCAGGTTTCGGCCCGTAGGCGTCTGGCAGCCCGGCCCATCTTCA
 TCGAGCGCCATGGCCGACGCTGCGGGCCGGGAGCGCCGGGTAAGTCTGCTCCTCGGC
 TTGCATTTGTTTCTGCTGACCGCGGGCCCTGCCCTGGGCTGGAACGACCTGACAGAATG
 TTGCTGCGGGATGTAAAAGCTCTTACCCTCCACTATGACCGCTATACCACCTCCCGCAGG
 CTGGATCCCATCCACAGTTGAAATGTGTTGGAGGCACAGCTGGTTGTGATTCTTATACC
 CCAAAAGTCATACAGTGTGAGAACAAAGGCTGGGATGGGTATGATGTACAGTGGGAATGT
 AAGACGGACTTAGATATTGCATACAAATTTGAAAAAAGTGGTGAGCTGTGAAGGCTAT
 GAGTCTCTGAAGACAGTATGTACTAAGAGGTTCTGTGGCTTGGAGTATAATTTAGAT
 TATACAGAACTTGGCCTGCAGAACTGAAGGAGTCTGAAAGCAGCAGGCTTTGCCTCT
 TTCTCTGATTATTATTATAAGTGGTCTCGGCGGATTCTGTAAATGAGTGGATTGATT
 ACCATCGTGGTACTCTTGGGATCGCCTTGTAGTCCATAACCTGTTCTGAGTGACGGC
 CAGTATTCTCTCCACCGTACTCTGAGTATCCTCCCTTCTCCACCGCTCCCAAGATTCA
 CCAACTCAGCAGGACCTCTCCCCAGCTTAAACCCTGAGTTCCAGGACCCACAT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_016127 unedited
 AAACCTTTTGCTTTGGACCGCGGCCGCATNCTAGNGTCGAGTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTTTTTTTTTTTTTAAACCCCTTGGTGGTTTTTATGGATTCTTTT
 AAGATTGAAACAGACTATTACAACATTTTTTGAGATTTTACAGAAAAGTGCATGCTTTTG
 TTATTAATAAACTTTTGGTGAATAATTTGACCTTTACCTTTTATGAACGAAAGAAATATA
 GGGGTTTCAAGCTTTTTTCCAGCACAGAGTCTTTCACAACAACCTTCTAAAGGCTTATT
 TTCTACCTTTTCTACAGAAGGTAATATTCAGTTACCAGAAGGCCATCTCCACCACTGAA
 TGATTCAAAGCTTCAAAGCTCAAAGGGACCAAACTCACAATTAAGCATAATTAGCCCCA
 AAGCTTGATTTAAATGTTTGAAGAACAGCAACCTTCAAATAATATAATCCCAATAGAAT
 TTTATAGCCTTTATGAGGTAATAACTCATCAGCTACAACCACCTAAAAGTAAATTTTCT
 GTACTTAGTTTCTATTAGAACAACACCTTATTCTTAAGGCTTCTTAGGGCATCAGAGT
 TTTAAAAATTAATGATTTTTTAGCATTCCACAGTAATGATCATTTTCAAAAAGTGAATA
 TACATTTGGCATGTTTACACTGACATACAACACATAAGTATTTTGTACACATCAACTTTT
 AGCCTCAAATAATAAAACAAAAGCTCCCTGGACATAACACCACAGACTTTTGAATATC
 CCCTTTTCCCAATTGTAACAGGTAGTACTTTTTTTCTAAGAGAAATGATGAAAACCCCAA
 TTTCTGTCTCAGTGTTTACTCCAACCTTTACTTTATCGCCCTGGAC

Restriction Sites:

ECORI-NOT

ACCN:

NM_016127

Insert Size:

700 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:	<u>NM_016127.4, NP_057211.4</u>
RefSeq Size:	1977 bp
RefSeq ORF:	1020 bp
Locus ID:	51669
UniProt ID:	<u>Q96BY9</u>
Cytogenetics:	8p12
Protein Families:	Transmembrane
Gene Summary:	Negative regulator of store-operated Ca^{2+} entry (SOCE) involved in protecting cells from Ca^{2+} overfilling. In response to cytosolic Ca^{2+} elevation after endoplasmic reticulum Ca^{2+} refilling, promotes a slow inactivation of STIM (STIM1 or STIM2)-dependent SOCE activity: possibly act by facilitating the deoligomerization of STIM to efficiently turn off ORAI when the endoplasmic reticulum lumen is filled with the appropriate Ca^{2+} levels, and thus preventing the overload of the cell with excessive Ca^{2+} ions.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer 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.