

Product datasheet for **SC323714**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_016127.4
 GGTGTAGCTGCGCAGCGTCGCGCGCTACCGACCCAGGTTCCGGCCCGTAGGCGTCTGG
 CAGCCCGCGCCATCTTCATCGAGCGCCATGGCCGAGCCTGCGGGCCGGGAGCGCCGG
 GTACTGCTTGCTCCTCGGCTTGCAATTTGTTTCTGCTGACCGCGGGCCCTGCCCTGGGCTG
 GAACGACCCTGACAGAATGTTGCTGCGGGATGTAAAGCTCTTACCCTCCACTATGACCG
 CTATACCACCTCCCGCAGGCTGGATCCCATCCACAGTTGAAATGTGTTGGAGGCACAGC
 TGGTTGTGATTCTTATACCCCAAAGTCATACAGTGTGAGAACAAAGGCTGGGATGGGTA
 TGATGTACAGTGGGAATGTAAAGCGGACTTAGATATTGCATACAAATTTGGAAAACTGT
 GGTGAGCTGTGAAGGCTATGAGTCTCTGAAGACCAAGTATGTAAGAGGTTCTGTGG
 CTTGGAGTATAATTTAGATTATACAGAACTTGGCTGCAGAACTGAAGGAGTCTGGAAA
 GCAGCAGGCTTTGCCTCTTCTCTGATTATTATTATAAGTGGTCTCGGCGGATTCTG
 TAACATGAGTGGATTGATTACCATCGTGGTACTCCTTGGGATCGCTTTGTAGTCTATAA
 GCTGTTCTGAGTGACGGGCAGTATTCTCCTCCACGTAAGTCTGAGTATCCTCCATTTTC
 CCACCGTTACCAGAGATTACCAACTCAGCAGGACCTCCTCCCCAGGCTTTAAGTCTGA
 GTTCACAGGACCACAGAATACTGGCCATGGTGCAACTTCTGGTTTGGCAGTGTCTTTAC
 AGGACAACAAGGATATGAAAATTCAGGACCAAGGTTCTGGACAGGCTTGGGAACTGGTGG
 AATACTAGGATATTTGTTTGGCAGCAATAGAGCGGCAACACCTTCTCAGACTCGTGGTA
 CTACCCGTCTATCCTCCTCCTACCCTGGCACGTGGAATAGGGCTTACTCACCCCTTCA
 TGGAGGCTCGGGCAGCTATTCGGTATGTTCAAACCTCAGACACGAAACCAGAACTGCATC
 AGGATATGGTGGTACCAGGAGACGATAAAGTAGAAAGTTGGAGTCAAACACTGGATGCAG
 AAATTTTGGATTTTTCATCACTTTCTCTTAGAAAAAAGTACTACCTGTTAACAATTGG
 GAAAAGGGGATATTCAAAAGTTCTGTGGTGTATGTCCAGTGTAGCTTTTGTATTCTAT
 TATTTGAGGCTAAAAGTTGATGTGTGACAAAATCTTATGTGTTGTATGCAGTGAACA
 TGCAGATGTATATTGCAGTTTTTGAAAGTGATCACTACTGTGGAATGCTAAAAATACATT
 AATTTCTAAAACCTGTGATGCCCTAAGAAGCATTAAAGATGAAGGTGTTGTAATAAGA
 AACTAAGTACAGAAAATTCAGTTTTAGGTGGTTGTAGCTGATGAGTTATTACCTCATAG
 AGACTATAATATTCTATTTGGTATTATATTATTTGATGTTTGTCTTCAAACATTTA
 AATCAAGCTTTGGACTAATTATGCTGTGAGTCTGATCACTTTTGTAGCTCTGAAGCTTTG
 AATCATTCAGTGGTGGAGATGGCCTTCTGGTAAGTGAATATTACCTTCTGTAGGAAAAGG
 TGGAAAAAAGCATCTAGAAGGTTGTTGTGAATGACTCTGTGCTGGCAAAAATGCTTGAA
 ACCTCTATATTTCTTTCGTTTCATAAGAGGTAAAGGTCAAATTTTCAACAAAAGTCTTTT
 AATAACAAAAGCATGCAGTTCTCTGTGAATCTCAAATATTGTTGTAATAGTCTGTTTCA
 ATCTTAAAAAGAATCAATAAAAAACAAACAGGGGTTTAAAAAAAAAAAAAAAAA

Restriction Sites: ECoRI-NOT

ACCN: NM_016127

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.

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.