

Product datasheet for **SC127584**

TMEM106A (NM_145041) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM106A (NM_145041) Human Untagged Clone
Tag:	Tag Free
Symbol:	TMEM106A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_145041, the custom clone sequence may differ by one or more nucleotides

ATGGGTAAGACGTTTTCCAGCTGGGCTCTTGGCGGGAGGATGAGAACAAGTCAATCCTGTCTCCAAAC
CAGCCATTGGCAGCAAGGCTGTCAACTACTCCAGCACCGGTAGCAGCAAGTCTTTTTGTTCTGTGTGCC
TTGTGAAGGAAGTGTGATGCCAGCTTCGTGACTTGTCCACCTGCCAGGGCAGTGGCAAGATCCCCAA
GAGCTGGAGAAGCAGTTGGTGGCTCTATTCCCTATGGGGACCAGAGGCTGAAGCCCAAGCACACGAAGC
TCTTTGTGTTCTGGCCGTGCTCATCTGCCTGGTGACCTCCTCCTTCATCGTCTTTTCTGTTCCTCCG
GTCCGTCATTGTGCAGCCTGCAGGCCTCAACTCCTCCACAGTGGCCTTTGATGAGGCTGATATCTACCTC
AACATAACGAATATCTTAAACATCTCCAATGGCAACTACTACCCATTATGGTGACACAGCTGACCCTCG
AGGTTCTGCACCTGTCCCTCGTGGTGGGGCAGGTTTCCAACAACCTTCTCCTACACATTGGCCCTTTGGC
CAGTGAACAGATGTTTTACGCAGTAGCTACCAAGATACGGGATGAAAACACATACAAAATCTGTACCTGG
CTGGAAATCAAAGTCCACCATGTGCTTTTGACATCCAGGGCACCTGACCTGTTTCATACCTGAGCCATT
CAGAGCAGCTGGTCTTTCAGAGCTATGAATATGTGGACTGCCGAGGAAACGCATCTGTGCCCCACCAGCT
GACCCCTCACCCACCATGA



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_145041 unedited
 CATATTTTGTAAATACGACTCACTATAGGCGGCACGCGATTCCGGCACGAGGTTTCTGTCGC
 TGCAGTCGTCCGCGGTGCGGCACATTTCGTTCCCTAGGACTCCGGCCGGTTGCCGGCCCC
 AGGCGGTGCTTCTCCCCACACCGCCAGCTCAGCTCAGCCCAGCCCAGCCCAGCTCTGCC
 CTTAGAGGCCCTTCTCCCCAAGACGCACTCCAGAAGTCTCGCCCTCGTGCGGCTGAGGA
 GCCTGGGATCCCAGACCTGAACAAGTGAACCCCCCGCCCTGAAGAATGGGTAAAGACGTT
 TTCCCAGCTGGGCTCTTGCGGGAGGATGAGAACAAGTCAATCCTGTCTCCAAACCAGC
 CATTGGCAGCAAGGCTGTCAACTACTCCAGCACCAGGTAGCAGCAAGTCTTTTGTTCCTG
 TGTGCCTTGTGAAAGAACTGCTGATGCCAGCTTCGTGACTTGTCACCTGCCAGGGCAG
 TGGCAAGATTCCTCAAGAGCTGGAGAAGCAGTTGGTGGCTCTATTCCCTATGGGGACCA
 GAGGCTGAAGCCCAAGCACAGCAAGCTCTTTGTGTTCTGCGCGTGTCTATCTGCCTGGT
 GACCTCTCTTCATCGTCTTTTCTGTTTCCCGGTCCGTATTGTGCAGCCTGCANG
 CCTCAACTCTCCACAGTGGCCTTTGATGAAGCTGATATCTACCTCAACATAACGAATAT
 CTTAAACATCTNCAATGGCAACTACTACCCATTATGGTGACACAGCTGACCCCTCGAGG
 TCTGCACCTGTCCNTCGTGGTGGGAGCAGGTTTCCAACAACTCTNCTAACATTGGCCC
 TTTNGCCAGTGAACAGATGTNTACGCAGTAGCTACCAGATACGGGATGAAACACTACAAA
 TCTGTACTGGCTGGAATCAAGTNACATGTGCTTTGCACATCAGGCACCNCTGACTGTNAT
 ACTGAGCATCAAAGCACTGGCTTCAACTANGATATGTGACTGCGAGAACACATCGC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_145041 unedited
 GCACTGAGGGCCAGGGGTCACAGGGGATGCCACCCGGGATCTGTTTCAGGAAACAGCTATG
 ACCGCGGCCGCAATCTAGAGTCGAGTTTTTATTTTTTTTTTAAACGGGGTCTTGCTAA
 TGTTGCTGCTCATGTTAACTTGAATTCCTGGGCTCTAGAGATCCTCTCACCTCAGCTTC
 CTGAGTAGCTGGGACTACAGGTATATACCACTGCACCCAGATTGTAAGACCAAGCCACCT
 TTAATGAACAAATATCCTTCTGTTCTGCTAAAGTACAGAACTATTTCTACTAGGAGCC
 AGTGGGAACCTAGGGGTTATCTGGAGCTTATCTCCAGCTAAGTGACAGGAAAGGGAGGGT
 CTAGACCAGTCCCTGCTGATGTGCTGCTCCACATTGTCAAAGCCCAAGGAGAGATGAGGC
 CTCTGGGACCAGACAGGGCCCTGGTCTAAGGTGGTGGTGAACAGAACCAGCACCCCTT
 CAGCTGGATACTGATAGCTTCATCTCCTGAAGGCTTTCAAATGACAGCAGCTGGACCCCA
 CCGTTTTACCTACCTGTGCTCCCTCACATGCGCTTANGATGTGGACTTAGAGGCTCTCT
 TTATAAATATCTTATCCATTGATTCTGTCTTTGGACTTGTTCCTGTGCAGGCCCCGC
 AAATTGCCAGGTGCCTTCTTTCCCTCCTATATTTTGGGCTCGGGCTATTAAGGAT
 AAGTAAACTACTTTTAAAGAAAAGGAGAACCTTTACCTTTGGAACACACTTTGGTT
 TTCTTGGGACCCGGGGGACGATGCTTTACCCACTAAAGGGGACAGAGTGTTAAAGGCC
 CCCTGGGGCATAACTTTCTTACACAGAGGGGTGGCCTGCCCTCTTTCCCGGAAGAAGAG
 CAATCATATGCCTTATTNCCACGGGGCCAAGGCCAATACGCCCCAGATAAGATCTCTTT
 TTTT

Restriction Sites:

NotI-NotI

ACCN:

NM_145041

Insert Size:

3100 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_145041.1, NP_659478.1</u>
RefSeq Size:	2795 bp
RefSeq ORF:	789 bp
Locus ID:	113277
UniProt ID:	<u>Q96A25</u>
Cytogenetics:	17q21.31
Protein Families:	Transmembrane
Gene Summary:	Activates macrophages and polarizes them into M1-like macrophages through the activation of the MAPK and NF-kappaB signaling pathway. Upon activation, upregulates the expression of CD80, CD86, CD69 and MHC II on macrophages, and induces the release of pro-inflammatory cytokines such as TNF, IL1B, IL6, CCL2 and nitric oxide (By similarity). May play a role in inhibition of proliferation and migration (PubMed:30456879, PubMed:29131025). [UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same isoform (a). 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.