

## Product datasheet for **SC334905**

### TMEM106A (NM\_001291586) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM106A (NM_001291586) Human Untagged Clone
Tag:	Tag Free
Symbol:	TMEM106A
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001291586, the custom clone sequence may differ by one or more nucleotides

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ATGGGTAAGACGTTTTCCAGCTGGGCTCTTGGCGGGAGGATGAGAACAAGTCAATCCTGTCTCCAAAC
CAGCCATTGGCAGCAAGGCTGTCAACTACTCCAGCACCGGTAGCAGCAAGTCTTTTTGTTCTGTGTGCC
TTGTGAAGGAAGTGTGATGCCAGCTTCGTGACTTGTCCACCTGCCAGGGCAGTGGCAAGATCCCCAA
GAGCTGGAGAAGCAGTTGGTGGCTCTCATTCCCTATGGGGACCAGAGGCTGAAGCCCAAGCACACGAAGC
TCTTTGTGTTCTGGCCGTGCTCATCTGCCTGGTGACCTCCTCCTCATCGTCTTTTTCTGTTTCCCGG
GTCCGTCATTGTGCAGCCTGCAGGCCTCAACTCCTCCACAGTGGCCTTTGATGAGGCTGATATCTACCTC
AACATAACGAATATCTTAAACATCTCCAATGGCAACTACTACCCATTATGGTGACACAGCTGACCTCG
AGGTTCTGCACCTGTCCCTCGTGGTGGGGCAGGTTTCCAACAACCTTCTCCTACACATTGGCCCTTTGGC
CAGTGAACAGATGTTTTACGCAGTAGCTACCAAGATACGGGATGAAAACACATACAAAATCTGTACCTGG
CTGGAAATCAAAGTCCACCATGTGCTTTTGCACATCCAGGGCACCTGACCTGTTTCATACCTGAGCCATT
CAGAGCAGCTGGTCTTTCAGAGCTATGAATATGTGGACTGCCGAGGAAACGCATCTGTGCCCCACCAGCT
GACCCCTCACCCACCATGA
  
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Restriction Sites:	SgfI-MluI
ACCN:	NM_001291586
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).


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<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>	<u>NM_001291586.1, NP_001278515.1</u>
<b>RefSeq Size:</b>	3348 bp
<b>RefSeq ORF:</b>	789 bp
<b>Locus ID:</b>	113277
<b>UniProt ID:</b>	<u>Q96A25</u>
<b>Cytogenetics:</b>	17q21.31
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	<p>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).</p> <p>[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a). Both variants 1 and 2 encode 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.</p>