

Product datasheet for **SC107673**

TMEM65 (NM_194291) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM65 (NM_194291) Human Untagged Clone
Tag:	Tag Free
Symbol:	TMEM65
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_194291, the custom clone sequence may differ by one or more nucleotides

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ATGTCCCGGCTGCTGCCGCTGCTGAGGAGCCGGACCGCGCGCAGCCTGAGGCCGGGCCCGCCGCCCGC  
CCGCGCCCCGCCCGCCGTCTGGTGCTGCTGCGGGCGGGGGCTGCTGGCGCTCGCGCCCCCGCGGGCTT  
GCCGGGCGGCCCCAGGCGGCTGGGCACGCACCCCAAGAAGGAGCCCATGGAGGCGCTGAACACGGCGCAG  
GGCGCGCGGACTTCATCTACAGCCTGCACTCCACGGAGAGGAGCTGCCTGCTCAAAGAGCTGCACCGCT  
TCGAGTCTATTGCCATTGCCAAGAAAAATTGGAAGCTCCACCACCCACCCAGGACAGCTGAGATATGT  
ATTCATCCACAATGCGATACCTTTCATAGGTTTGGCTTTTTGGATAATGCAATTATGATTGTTGCTGGA  
ACCCATATTGAAATGTCTATTGGAATTTTTGGGAATTTCAACTATGGCAGCTGCTGTTGGGAAATC  
TTGTGTCAGATCTAGCTGGACTTGGACTTGCAGGCTACGTTGAAGCATTGGCTTCCAGGTTAGGCCTGTC  
AATTCCTGATCTCACACCAAAGCAAGTTGACATGTGGCAAACACGTCTTAGTACACATTTGGCAAAGCT  
GTTGGGGTGAATTTGGCTGCATTCTAGGAATGTTTCTTTAATTTTCTTTGGAGGAGGTGAAGAAGATG  
AAAACTGGAAACGAAAAGTTAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_194291 unedited CCCTGTTTCGNAATTGTATACGACTCATATAGGGCGGCCGGAATTCGCACCAGCGGGCCC GCGGAGTGCATGGTGCCCGGCGCCTCGGCTGCCTGGCAGGAGGACCTCGGGGCGGGGTCG AGCTGAGCCCAGCTCCTTCTCGCCTCAGCCGCGCCAGAAACCGCCTTCCCGGACGGCCGC GGGGTCCCAGCTCCTCAGCTCGCCATGTCCCGGCTGCTGCCGCTGCTGAGGAGCCGGAC CGCGCGCAGCCTGAGGCCGGGCCCGCCGCCCGCCCGCCCGCCCGCCCGCCCGCTCCTGGTG CTGCTGCGGGCGGGGGCTGCTGGCGCTGCGCCCCCGGCGGCTTGCCGGGCGGCCCCAG GCGGCTGGGCACGCACCCCAAGAAGGAGCCCATGGAGGCGCTGAACACGGCGCAGGGCGC GCGCGACTTCATCTACAGCCTGCACTCCACGGAGAGGAGCTGCCTGCTCAAAGAGCTGCA CCGCTTCGAGTCTATTGCCATTGCCAAGAAAAATTGGAAGCTCCACCACCCACCCAGG ACAGCTGAGATATGTATTCATCCACAATGCGATACCTTTCATAGGGTTTGGCTTTTTGGA TAATGCAATTATGATTGTTGCTGGAACCCATATTGAAATGTCTATTGGAATTATTTGGG AATTTCAACTATGGCAGCTGCTGCTTTGGGAAATCTTGTGTCAGATCTAGCTGGACTTGG ACTTGCAGGCTACGTTGAAGCATTGGCTTCCAGGTTAGGCCTGTCAATTCCTGATCTCCA CCANAGCAGTTGACATGTGGCAACACGTCTTATACACATTTGGGCAAGCTGTTGGGGTGA CTATTGGCTGCATCTAGGAATGGTCCTTAATTTCTTGGAGGAGGTGAGAGATGAAACTG GAACGANAGNTATCCTA
Restriction Sites:	NotI-NotI
ACCN:	NM_194291
Insert Size:	3950 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:	<ol style="list-style-type: none"> 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_194291.1</u> , <u>NP_919267.1</u>
RefSeq Size:	3258 bp
RefSeq ORF:	723 bp
Locus ID:	157378
UniProt ID:	<u>Q6PI78</u>
Cytogenetics:	8q24.13
Protein Families:	Transmembrane

Gene Summary:

May play an important role in cardiac development and function. May regulate cardiac conduction and the function of the gap junction protein GJA1. May contribute to the stability and proper localization of GJA1 to cardiac intercalated disk thereby regulating gap junction communication (By similarity). May also play a role in the regulation of mitochondrial respiration and mitochondrial DNA copy number maintenance (PubMed:28295037). [UniProtKB/Swiss-Prot Function]