

Product datasheet for SC112219

TMEM43 (NM_024334) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM43 (NM_024334) Human Untagged Clone
Tag:	Tag Free
Symbol:	TMEM43
Synonyms:	ARVC5; ARVD5; EDMD7; LUMA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC112219 sequence for NM_024334 edited (data generated by NextGen Sequencing)

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ATGGCCGCGAATTATTCCAGTACCAGTACCCGGAGAGAACATGTCAAAGTTAAAACCAGC
TCCCAGCCAGGCTTCCTGGAACGGCTGAGCGAGACCTCGGGTGGGATGTTTGTGGGGCTC
ATGGCCTTCTGCTCTCCTTCTACCTAATTTTACCAATGAGGGCCGCGATTGAAGACG
GCAACCTCATTGGCTGAGGGGCTCTCGCTTGTGGTGTCTCCCACAGCATCCACAGTGTG
GCTCCGGAGAATGAAGGAAGGCTGGTGCACATCATTGGCGCCTTACGGACATCCAAGCTT
TTGTCTGATCCAACTATGGGGTCCATCTTCCGGCTGTGAACTGCGGAGGCACGTGGAG
ATGTACCAATGGGTAGAACTGAGGAGTCCAGGGAGTACACCGAGGATGGGCAGGTGAAG
AAGGAGACGAGGTATTCCTACAACACTGAATGGAGGTGAGAAATCATCAACAGCAAAAAC
TTCGACCGAGAGATTGGCCACAAAACCCAGTGCCATGGCAGTGGAGTCATTTCATGGCA
ACAGCCCCCTTTGTCAAATTGGCAGGTTTTCTCTCTCGTCAGGCCTCATCGACAAAAGTC
GACAACTCAAGTCCCTGAGCCTATCCAAGCTGGAGGACCTCATGTGGACATCATTTCG
CGTGGAGACTTTTTCTACCACAGCGAAAATCCCAAGTATCCAGAGGTGGGAGACTTTCGT
GTCTCCTTTTCTATGCTGGACTGAGCGGCGATGACCCTGACCTGGGCCAGCTCACGTG
GTCACCTGATGCCCCGCGAGCGGGGTGACCAGCTAGTCCCATTCTCCACCAAGTCTGGG
GATACCTTACTGCTCCTGCACCACGGGGACTTCTCAGCAGAGGAGGTGTTTCATAGAGAA
CTAAGGAGCAACTCCATGAAGACCTGGGGCCTGCGGGCAGCTGGCTGGATGGCCATGTT
ATGGGCCCTCAACCTTATGACACGGATCCTCTACACCTTGGTGGACTGTTTCCTGTTTT
CGAGACCTGGTCAACATTGGCCTGAAAGCCTTTGCCTTCTGTGTGGCCACCTCGCTGACC
CTGCTGACCGTGGCGGCTGGCTGCTTCTACCGACCCCTGTGGGCCCTCCTCATTGCC
GGCCTGGCCCTTGTGCCATCCTTGTGCTCGGACACGGGTGCCAGCAAAAAGTTGGAG
TGA

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Clone variation with respect to NM_024334.2



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_024334 unedited
 NNNNTTGTCAAATTTGTATACGACTCATATAGGGCGGCCGCGATTTCGGCACGAGGCTGGA
 CACCACGCTCCAGTCGTCAGCCACTTCTAGCTGAACAGCGCGAGGCGCGGCAGCGAG
 CCGGGTCCCACCATGGCCGGAATTATTCCAGTACCAGTACCCGGAGAGAAACATGTCAA
 GTTAAAACCAGCTCCCAGCCAGGCTTCTGGAACGGCTGAGCGAGACCTCGGGTGGGATG
 TTTGTGGGGCTCATGGCCTTCTGCTCTCTTCTACCTAATTTTACCAATGAGGGCCGC
 GCATTGAAGACGGCAACCTCATTGGCTGAGGGGCTCTCGCTTGTGGTGTCTCCCGACAGC
 ATCCACAGTGTGGCTCCGGAGAATGAAGGAAGGCTGGTGACATCATTGGCGCCTTACGG
 ACATCCAAGCTTTTGTCTGATCCAACTATGGGGTCCATCTTCCGGCTGTGAAACTGCGG
 AGGCACGTGGAGATGTACCAATGGGTAGAACTGAGGAGTCCAGGGAGTACACCGAGGAT
 GGGCAGGTGAAGAAGGAGACGAGGTATTCTACAACACTGAATGGAGGTCAGAAATCATC
 AACAGCAAAAACCTCGACCGAGAGATTGGCCACAAAAACCCAGTGCCATGGCAGTGGAG
 TCATTCATGGCAACAGCCCCCTTTGTCCAATTTGGCAGGTTTTTCTCTCGTCAGGCCTC
 ATCGACAAAAGTCGACAACTTCAAGTCCCTGAGCCTATCCAAGCTGGAGGACCCTCATGTG
 GACATCATTCGCGTGGAGACTNTTCTACACAGCGANAATCCCAGTATNCAGAGGTGGG
 AGACTTNGCGTGTCTCTTTTCTATGCTGNACTGAGCGCGGATGACCCCTGACCTGGCC
 AACTNACGTGCTACTGTGATTGCA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_024334 unedited
 ACGCAATCTAGTGTGAGTTTTTTTTTTTTTTTTTTTTGGTTTTAAATCTTATTTTCAGAAAA
 CTCTCTTTGGGGTAGGGAAAGTACACATGAAGCAGCAAAGTAACGAAGAAAACTTAAA
 TAGGGCCTTCAGAGATCCACACACTACAAAGATTCTGCCAAGCCATAAGATAAGTGTGA
 AGCCAGTATATGTCCAGCTTTTCTCTCAGGACATCTTCAGTGGTTCTTCTCTTTTAAA
 CACCACATCAGGTTCTAGCCACAGACTTGTGTTTTGGGTGTGCCTGCTTTGAGGGTCCA
 TGCCCAAGTGTGTCTGCTGGTGACCCAGGACTCAGCAGTAACTGACTAACGGCCGCCCTTCA
 GGATCACAGATGTGCTTGGTGGTGGTGGCAAAGCATGGCCTTGTGTGCAGTGTGAGAA
 GCAGCACACGGCAAGGCTGAGCCCTTATCAGCAGGCCTCCGTAGAGCGTGTCTGCGTTG
 TCAGCTGCCAATGGGCTGAGTGGCTGGCCGTACCCACTCAGTCCAAGAGAGGAAGGAAAC
 AGCAGGAGAAGCTGTGAGCTTGCATTCATGAGCTGCTGCTGCCACCAAAGCTGCTTAC
 TGGCAAGAAGAGATGTGGGAAGACATGAGCTGGTGAACACCAACCTGGTGCACATGCTG
 CCAAGTCTGGCCCTGAAGAGAGAGGGAGTGCANAGTCCAAAATTGACCGGGCTCCTGC
 TCTGGCATGGAGCTGGGTCANAGGTGAAAGTAGACCCTGGATCCTATGGCTCACGCAGGG
 TGTCCGGCAGGTGCCCAAGGCTTTTTACTNCAAACCTTTTGGCTGGCAACCCGTGTCCGAG
 CATCATGGATTGGCACAAGGNCCATGCCNGNCCATGAGGAGGGCCACAAGGGTCCGGTA
 GAATAATCAACCCATCCCACGGTCATCATGGTTCATCGAAAGTGGCCACACATAAGGCAA
 TGGCCTTCAGNNCCATGTNGACCANGTCTCGGAATCAGGNAACATCCACCAGGGTTAAG
 GGACCGGTNCATAG

Restriction Sites:

NotI-NotI

ACCN:

NM_024334

Insert Size:

2140 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
Components:	<p>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).</p>
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:	NM_024334.1 , NP_077310.1
RefSeq Size:	3254 bp
RefSeq ORF:	1203 bp
Locus ID:	79188
UniProt ID:	Q9BTV4
Cytogenetics:	3p25.1
Protein Families:	Transmembrane
Gene Summary:	<p>This gene belongs to the TMEM43 family. Defects in this gene are the cause of familial arrhythmogenic right ventricular dysplasia type 5 (ARVD5), also known as arrhythmogenic right ventricular cardiomyopathy type 5 (ARVC5). Arrhythmogenic right ventricular dysplasia is an inherited disorder, often involving both ventricles, and is characterized by ventricular tachycardia, heart failure, sudden cardiac death, and fibrofatty replacement of cardiomyocytes. This gene contains a response element for PPAR gamma (an adipogenic transcription factor), which may explain the fibrofatty replacement of the myocardium, a characteristic pathological finding in ARVC. [provided by RefSeq, Oct 2008]</p>