

Product datasheet for RC202623

TMEM49 (VMP1) (NM_030938) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM49 (VMP1) (NM_030938) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TMEM49
Synonyms:	EPG3; TANGO5; TMEM49
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202623 representing NM_030938 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGAGAATGGAAAAATTGTGACCAGAGACGTGTAGCAATGAACAAGGAACATCATAATGAAATT
TCACAGACCCCTTTCAGTGAATGAAAAGAAGAGGAGGGAGCGGGAAGAAAGGCAGAATATTGTCCTGTG
GAGACAGCCGCTCATTACCTTGCAATTTTTCTCTGGAAATCCTTGAATCTTGAAGGAATGGACCTCA
AAATTATGGCATCGTCAAAGCATTGTGGTGTCTTTTTACTGCTTGTGTGCTTATAGCTACGTATT
ATGTTGAAGGAGTGCATCAACAGTATGTGCAACGTATAGAGAAACAGTTTCTTTGTATGCCTACTGGAT
AGGCTTAGGAATTTGTCTTCTGTTGGGCTTGGAAACAGGGCTGCACACCTTCTGCTTTATCTGGGTCCA
CATATAGCCTCAGTTACATTAGCTGCTTATGAATGCAATTCAGTTAATTTCCCGAACCACCTATCCTG
ATCAGATTATTTGTCCAGATGAAGAGGGCACTGAAGGAACCATTTCTTTGTGGAGTATCATCTCAAAAGT
TAGGATTGAAGCCTGCATGTGGGTATCGGTACAGCAATCGGAGAGCTGCCTCCATTTTCATGGCCAGA
GCAGCTCGCCTCTCAGGTGCTGAACCAGATGATGAAGAGTATCAGGAATTTGAAGAGATGCTGGAACATG
CAGAGTCTGCACAAGACTTTGCCTCCCGGGCCAAACTGGCAGTTCAAAAAGTACAGAAAAGTTGGATT
TTTTGGAATTTGGCCTGTGCTTCAATTCAAAATCCTTTATTTGATCTGGCTGGAATAACGTGTGGACAC
TTCTGGTACCTTTTGGACCTTCTTTGGTCAACCCTAATTTGGAAAAGCAATAAATAAAATGCATATCC
AGAAAATTTTGTATAATAACATTTCAGCAAGCACATAGTGGAGCAAATGGTGGCTTTCATTGGTGTCTG
CCCCGGCATAGGTCCATCTCTGCAGAAGCCATTTTCAGGAGTACCTGGAGGCTCAACGGCAGAAGCTTCAC
CACAAAAGCGAAATGGGCACACCACAGGGAGAAAAGTGGTTGCTCGGATGTTTAAAAAGTTGGTCGTTG
TCATGGTGTGTTACTTCACTATCTATCATTAACTCCATGGCACAAAAGTTATGCCAAACGAATCCAGCA
GCGGTTGAACTCAGAGGAGAAAATAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202623 representing NM_030938
Red=Cloning site Green=Tags(s)

MAENGKNCQRRVAMNKEHHNGNFTDPSSVNEKKRREERERQNI VLWRQPLITLQYFSLEILVILKEWTS
 KLWHRQSI VVSFLLLLLAVLIATYVVEGVHQYVQRIEKQFLLYAYWIGLILSSVGLGTGLHTFLLYLGP
 HIASVTLAAYECNSVNFPEPPYPDQIICPDEEGTEGTISLWSIIISKVRIEACMWIGTAIGELPPYFMAR
 AARLSGAEPDDEEYQEFEEMLHAESAQDFASRAKLAVQKLVQKVGFFGILACASIPNPLFDLAGITCGH
 FLVPFWTFFGATLIGKAIKMHIQKIFVIITFSKHIVEQMVAFIGAVPGIGPSLQKPFQEYLEAQRQKLH
 HKSEMGT PQENWLSWMFEKLVVMVCYFILSIINSMAQSYAKRIQQRLNSEEKTK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_030938

ORF Size: 1218 bp

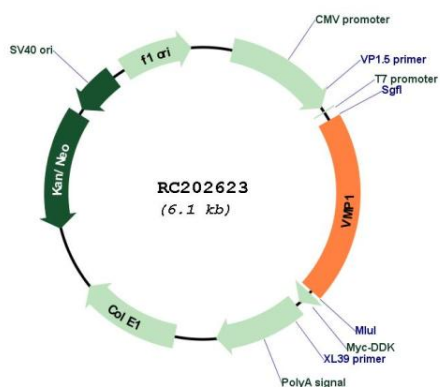
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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.

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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_030938.5
RefSeq Size:	2530 bp
RefSeq ORF:	1221 bp
Locus ID:	81671
UniProt ID:	Q96GC9
Cytogenetics:	17q23.1
Protein Families:	Transmembrane
MW:	46.1 kDa
Gene Summary:	This gene encodes a transmembrane protein that plays a key regulatory role in the process of autophagy. The ectopic overexpression of the encoded protein in cultured cells triggers autophagy even under nutrient-rich conditions. This gene is overexpressed in pancreatitis affected acinar cells where the encoded protein mediates sequestration and degradation of potentially deleterious activated zymogen granules in a process termed, zymophagy. [provided by RefSeq, Jul 2016]

Product images:



Circular map for RC202623