

## Product datasheet for **RC205662**

### **TMEM39A (NM\_018266) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TMEM39A (NM_018266) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TMEM39A
Synonyms:	SUSR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC205662 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCCCGTGAAGGAGGGCCCTAGTCGGCAACAGCTAAGCCGTTTCAGCTTTACCTTCTTGCAGACTT  
 TGGTTGGTGGAGGCTGTGGCAATGGAACAGGCTTGAGAAACAGGAATGGTAGTGCTATTGGCCTTCCAGT  
 CCCACCTATCACAGCCTTAATCACCCAGGTCCTGTTTCGTCATTGCCAAATTCCTGACTTGCCTGTGGAT  
 GGGAGCCTACTCTTTGAATTCCTTTTTTTCATCTACCTGTTGGTTGCTCTTTTCATTAGTACATCAACA  
 TTTATAAACAGTGTGGTGGTATCCTTACAATCATCCTGCTTCTGTACATCACTGAATTTTCATCTCAT  
 TGATTATCATCTGGCAGCATTATCACAGTGATGCTTGCAGGAGGCTTGTATGGGCTCTCATCTCAGAG  
 GCTACTAAGGCAGGTGCAGCATCAATGATTCACATACATGGTTCTGATATCAGCTCGCTTGGTACTACTCA  
 CTTTGTGTGGATGGTACTTTGTTGGACCCTCGTCAATCTCTTTCGAAGCCATTCAGTCCCTCAATCTCT  
 TTTCTTGGCTACCCGTTTGGTGTATGTTCCCTTTTGTGTTTTCATCAAGATAGTAGACACATCTT  
 CTCTCACAGACTACAACATATGTGGTTCAGCACGAGGCAGTAGAGGAAAGTGCCTCGACTGTGGGAGGCT  
 TGGCCAAATCCAAGACTTTCTCTCCTTGTGGTGGAGTGCCTAAAAGAAGTAAATAATGCCACACC  
 CATCCCCACCCACAGTTGTCCCCTATCTCCAGACCTCATTGCGAATGAAGTAGAATGTCTGAAAGCAGAT  
 TTCAACCACAGAATCAAGGAGGTTCTCTTCAACTCCCTCTTCAGTGCCTACTATGTTGCATTTCTCCCC  
 TGTGTTTTGTGAAGAGTACCCAGTACTATGACATGCGCTGGTTCATGTGAGCACCTCATTATGGTGTGGAT  
 CAATGCTTTTGTGATGCTCACCACGCACTGTTGCCATCCAAATACTGTGATTTGCTACATAAATCAGT  
 GCTCACCTGGGCAAGTGGCAGAAGTGGAAATGGGTCCTACAGCAATGCTCCACAGCACATTTGGTCAG  
 AAAATACAATATGGCCTCAAGGGGTGCTGGTGGCAGCACAGCAGATGTTTATATAGAGCCATGGGGCCTTA  
 CAACGTGGCAGTGCCTTCAGATGTATCTCATGCCCGCTTTTATTCTTATTTTCATCGACCATTAAGGCTG  
 TAAATCTGCTCATCCTTATTGAGGGCAGTGTGCTCTTCTATCAGCTCTATTCTTGTGCTGCGGTGCGAGA  
 AGTGAACCACACACTTTCCATGGCTCTCATCCTCTTCTGCAACTACTATGTTTTATTTAAACTTCTCCG  
 GGACAGAATAGTATTAGGCAGGGCATACTCTACCCTCAACAGTTATGAACTCAAGGCAAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC205662 protein sequence  
 Red=Cloning site Green=Tags(s)

MPGRRGSPSRQQLSRSALPSLQTLVGGCGNGTGLRNRNGSAIGLPVPPITALITPGPVRHCQIPDL PVD  
 GSLLFEFLFFIYLLVALFIQYINIYKTVWWYPYNHPASCTSLNFHLIDYHLAAFITVMLARRLVWALISE  
 ATKAGAASMIHYMVLISARLVLLTCGWVLCWTLVNLFRSHSVLNLFLGYPFVGVVPLCCFHQDSRAHL  
 LLTDYNYVVQHEAVEESASTVGGGLAKSKDFLSLLESLKEQFNATPIPTHSCPLSPDLIRNEVECLKAD  
 FNHRIKEVLFNSLFSAYYVAFPLCFVKSTQYYDMRWSCEHLIMVWINAFVMLTTQLLPSKYCDLLHKSA  
 AHLGKWQKLEHGSYSNAPQHIWSENTIWPQGVLRHSRCLYRAMGPYNVAVPSDVSHARFYFLFHRPLRL  
 LNLILLIEGSVVFYQLYSLLRSEKWNHTLSMALILFCNYVFLKLLRDRIVLGRAYSPLNSYELKAN

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6420\\_h10.zip](https://cdn.origene.com/chromatograms/mk6420_h10.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_018266

**ORF Size:** 1464 bp

**OTI Disclaimer:** 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:**

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\\_018266.3](#)
**RefSeq Size:** 4909 bp

**RefSeq ORF:** 1467 bp

**Locus ID:** 55254

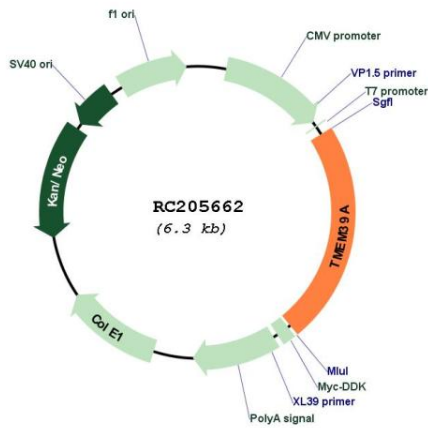
**UniProt ID:** [Q9NV64](#)
**Cytogenetics:** 3q13.33

**Protein Families:** Transmembrane

**MW:** 55.7 kDa

**Gene Summary:** Regulates autophagy by controlling the spatial distribution and levels of the intracellular phosphatidylinositol 4-phosphate (PtdIns(4)P) pools (PubMed:31806350). Modulates (PtdIns(4)P) levels by regulating the ER-to-Golgi trafficking of the phosphatidylinositide phosphatase SACM1L (PubMed:31806350).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RC205662