

## Product datasheet for MR205066

### Tmem16a (BC006062) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem16a (BC006062) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tmem16a
Synonyms:	Tmem16a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205066 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGAGTGTGCCCGGGCGGCTGCCTCATGGAGCTCTGTATCCAGCTGAGCATCATTATGCTGGGCA  
AGCAGCTAATCCAGAACAATCTCTCGAGATTGGCATCCCGAAGATGAAAAAGTTCATCCGCTACCTGAA  
GCTGCGCAGACAGAGCCCTCAGACCGTGAAGAGTACGTGAAGCGGAAGCAGCGCTATGAGGTGGACTTC  
AACCTCGAACCTTCGCCGGCCTCAGCCCGAGTACATGGAAATGATCATTTCAGTTGGCTTTGTCACCC  
TGTTTGTGCGTCTTCCCTCTGGCTCCACTCTCGCCCTGCTAAACAACATCATTGAGATCCGCCTGGA  
TGCCAAAAGTTTGTACCGAGCTACGGAGGCCAGTAGCCATCAGAGCCAAAGACATCGGCATCTGGTAT  
AACATCCTCAGAGGTGTTGGGAAGCTGGCTGTCATCATTAAATGCCTTTGTGATCTCCTTCACGTCTGACT  
TCATCCCTCGCCTGGTGTACCTCTACATGTACAGTACAGTACAGTACAGTACAGTACAGTACAGTACAGT  
GCTCTCTTCTCAATGTACAGGACTTCCAGAATGGCACAGCACCCAATGACCCACTGGACCTGGGCTAT  
GAGGTTTCAGATCTGCAGGTATAAAGATTACCGGAACCCCATGGTCAGAACACAAGTATGACATCTCCA  
AAGACTTCTGGGCTGTCTGGCCGCCGACTGGCATTGTGATTGCTTCCAGAACCTGGTATGTTTCAT  
GAGTGACTTTGTGGACTGGGTGATCCCTGATATCCCCAAAGACATCAGCCAGCAGATCCACAAAGAGAAG  
GTTCTCATGGTGGAGCTGTTTATGCGTGAGGAGCAGGGCAAGCAGCAGCTACTGGACACATGGATGGAGA  
AGGAGAAGCCAAAGGATGTGCCTTGTAAACAACCACAGCCCAACCCACCCAGAGGCAGGCGACGGCAG  
CCCAGTCCCAGCTACGAGTACCATGGGACGCACTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR205066 protein sequence  
 Red=Cloning site Green=Tags(s)

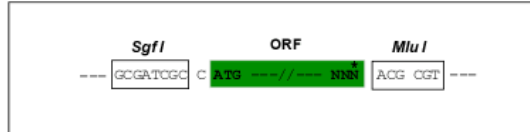
MEECAPGGCLMELCIQLSIIMLGKQLIQNNLFEIGIPKMKKFIRYLKRRQSPSDREEYVKRKRQRYEVD  
 NLEPFAGLTPEYMEMIIQFGFVTLFVASFLAPLALLNNIEIRLDAKKFVTELRPVAIRAKDIGIWI  
 NILRGVGLAVIINAFVISFTSDFIPRLVYLYMSQNGTMHGFVNHTLSSFNVSDFQNGTAPNDPLDLGY  
 EVQICRYKDYREPPWSEHKYDISKDFWAVLAARLAFVIVFQNLVMFMSDFVDWVIPDKDISQQIHKEK  
 VLMVELFMREEQKQQLLDTWMEKEKPRDVPNNHSPPTTHPEAGDGGSPVPSYIEYHGDA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** BC006062

**ORF Size:** 1017 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:** [BC006062](#), [AAH06062](#)

**RefSeq Size:** 2473 bp

**RefSeq ORF:** 1019 bp

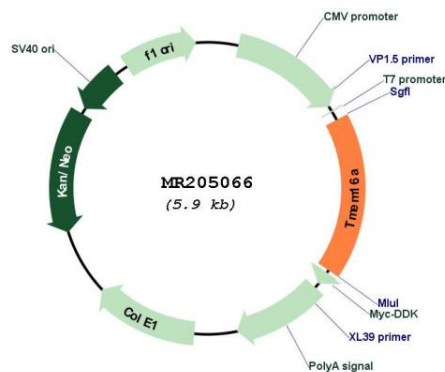
**Locus ID:** 101772

**Cytogenetics:** 7 F5

**MW:** 39.3 kDa

**Gene Summary:** Calcium-activated chloride channel (CaCC) which plays an important role in transepithelial anion transport and smooth muscle contraction. Required for the normal functioning of the interstitial cells of Cajal (ICCs) which generate electrical pacemaker activity in gastrointestinal smooth muscles. Acts as a major contributor to basal and stimulated chloride conductance in airway epithelial cells and plays an important role in tracheal cartilage development. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR205066