

## Product datasheet for **MR208006**

### **Tmem175 (NM\_001163532) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tmem175 (NM_001163532) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tmem175
Synonyms:	3010001K23Rik; AI504381; mTMEM175
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR208006 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCCAGGCTCCAGACTGAGGAGCAGGCAGTGGATTCCGAGGGAGACTCATCCCTACACAGGAGAAATG  
 AGGAGGGGACACAGAGCTCCACCCGCATGCTGGGCTTCAGTGATGCACTGCTATCCATCATCGCCACTGT  
 CATGATCCTGCCTGTGACCCACACAGAGATCTCACCAGAACAGCAGTTTGACAAAAGTATACAGAAACTC  
 CTAGCAACTAGGATCGTGTCTACCTCATGACATTTCTAATCGTAACTGTGGCCTGGACAGCACATACCA  
 GATTGTTCCAGGTTGTTGGAAAAATAGATGATACACTTGCCTTGCTCAACCTGGCCTGTATGATGACTAT  
 CACCTCTGCCCTACACATTTTACTAATGGTAACTCCCTGATGTGCCCTGGGCATCTTCTGTTC  
 TGCGTGTGTGTGATCGCCATTGGATCTGTGCAGGCAATGATTGTGGGCTATGCCTTCCACTTCCACATC  
 TGCTGAATCCACAAATCCAGTGTCTACACGTAGGGATCTATCCCGCGGCATATCCTGCACCTGGTCTCT  
 CCGTGGCCAGCAGCTGTGTTTTGTGCGGCTGTCTTTCCCTCTTCTTCCCCTTGTCATACCTGCTG  
 ATGGTGACTGTACTTCTCCCTCACATCAGCAAGGCTACCACCTGGTGCAAAGACAAGTTGATGGGCC  
 AAAGGGAGTCTCCAGCTCACGACATGGAGCCCTCAGTATTGACCTGCATGCGCCCTCAGCAAAGAGCG  
 GGTGGAAGCTTTCAGCGACGGTGTCTATGCCATCGTGGCCACACTCCTCATCCTGGACATCTGTGAGGAC  
 AATGTTCCGGATCCCAAGGATGTGCAAGAGAAATTCAGTGGCAGCCTTGTGGCTGCCCTGGGTGCATATG  
 GGCCACAATTCTTGGCATACTTCGGCTCCTTCGCCACAGTGGGTCTCCTGTGTTTGTCTCACCATTCACT  
 CTTCTGCATGTCCGGAAGGCTACACAGACCATGGGGTACTCAACATACTATCGCTGGCCTTTGTGGGT  
 GGCTTCTCTGGCCTACCAGCAGACCTCAGCTTTTGGCCGCAACCCCATGATGAACTTGAGCCTGTGTC  
 TGTCAGCTGTGCCATCATCTTTTGGCAGCATCTCCAGTTTGGCATCTGGACTACAGCCCTGTGTC  
 TCAGACAGAAACTGCAGCCAGCTGTGCAATTTGGTGGCAGGAGCATGCTTTCATGTTTGCCAAGCTT  
 GCACTGTATCCCTGTGCCAGCCTGCTGGCCTTGTGCCACCTGCCTACTGAGTCGTTTTCAGCACAGCCA  
 TCTTCCACCTCATGCAGATTTTCAGTGCCTTTGCATTCTGTGTCCGCTCCTTGTACGCTTGGCCT  
 GGCAGGCCTTCAAGTCTACGGGGCCTCTGGCCACACCATCCCCAACAGACCAGAGTGAACCTGAGGCA  
 CAGTCCCAGCTCTGCTGACCCCTGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208006 protein sequence  
 Red=Cloning site Green=Tags(s)

MSRLQTEEQAVDSEGDSSLHRRNEEGTQSSHRMLGFS DALLSIIATVMILPVTHTEISPEQQFDKSIQKL  
 LATRIAVYLMTFIVTVAWTAHTRLFQVVGKIDDTLALLNLACMMITLLPYTFSLMVTFPDVPLGIFLF  
 CVCVIAIGSVQAMIVGYAFHFPHLLNPQIQCSTRRDLRRHILHLVLRGPALCFVAAVFSLFFPPLSYLL  
 MVTVIFLPHISKATTWCKDKLMGQRESPAHDMPEFSIDLHAPLSKERVEAFSDGVYAIIVATLLILDICED  
 NVPDPKDVQEKFSGLVAALGAYGPQFLAYFGSFATVGLLWFAHHSFLHVRKATQTMGLLNILSLAFVG  
 GLPLAYQQTSFAFARQPHDELERVVSCAIIFFASIFQFAIWTTALLHQETLQPAVQFGGQEHAFMFAKL  
 ALYPCASLLAFAATCLLSRFSTAI FHLMQISVPFAFLLLRLLVRLALAGLQVLRGLWPHHPQQDQSEPEA  
 QSQLLPDPC

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001163532

**ORF Size:** 1500 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\\_001163532.1](#), [NP\\_001157004.1](#)

**RefSeq Size:** 2966 bp

**RefSeq ORF:** 1500 bp

**Locus ID:** 72392

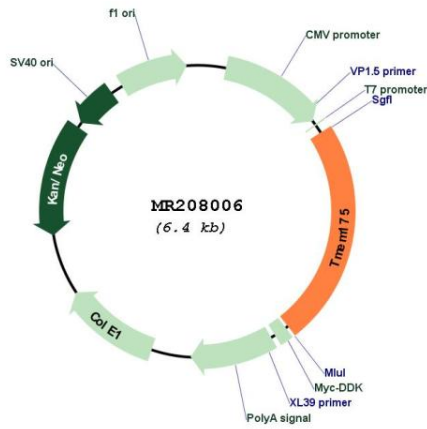
**UniProt ID:** [Q9CXY1](#)

**Cytogenetics:** 5 F

**MW:** 55.6 kDa

**Gene Summary:** Organelle-specific potassium channel specifically responsible for potassium conductance in endosomes and lysosomes. Forms a potassium-permeable leak-like channel, which regulates luminal pH stability and is required for autophagosome-lysosome fusion. Constitutes the major lysosomal potassium channel.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR208006