

## Product datasheet for **MC217020**

### **Tmem175 (NM\_001163531) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tmem175 (NM_001163531) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tmem175
Synonyms:	3010001K23Rik; AI504381; mTMEM175
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC217020 representing NM\_001163531  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTCCAGGCTCCAGACTGAGGAGCAGGCAGTGGATTCCGAGGGAGACTCATCCCTACACAGGAGAAATG  
AGGAGGGGACACAGAGCTCCACCCGCATGCTGGGCTTCAGTGATGCACTGCTGTCCATCATCGCCACTGT  
CATGATCCTGCCTGTGACCCACACAGAGATCTCACCAGAACAGTTTGACAAAAGTATACAGAAACTCCTA  
GCAACTAGGATCGCTGTCTACCTCATGACATTTCTAATCGTAACTGTGGCCTGGACAGCACATACCAGAT  
TGTTCCAGGTTGTTGGAAAAATAGATGATACACTTGCCTTGCTCAACCTGGCCTGTATGACTATCAC  
CCTCCTGCCCTACACATTTTCACTAATGGTAACATTCCCTGATGTGCCCTGGGCATCTTCTGTCTGCTG  
GTGTGTGTGATCGCCATTGGATCTGTGCAGGCAATGATTGTGGGCTATGCCTTCCACTTCCCACATCTGC  
TGAATCCACAAAATCCAGTGTCTACACATAGGGATCTATCCCGGGGCATATCCTGCACCTGGTCTCCG  
TGCCCCAGCACTGTGTTTGTGGCGCTGTCTTTCCCTTCTTCTTCCCTTGTGCATACCTGCTGATG  
GTGACTGTGATCTTCCCTCCTCACATCAGCAAGGCTACCACCTGGTGCAAGACAAGTTGATGGGCCAAA  
GGGAGTCTCCAGCTCACGACATGGAGCCCTTCACTATTGACCTGCATGCGCCCTCAGCAAGAGCGGGT  
GGAAGCTTTCAGCGACGGTGTCTATGCCATCGTGGCCACACTCCTCATCTGGACATCTGTGAGGACAAT  
GTTCCGGATCCCAAGGATGTGCAAGAGAAAATTCAGTGGCAGCCTTGTGGCTGCCCTGGGTGCATATGGGC  
CACAATCTTGGCATACTTCGGCTCCTTCGCCACAGTGGGTCTCCTCTGGTTTGCACCACTTCACTCTT  
CCTGCATGTCCGAAGGCTACACAGACCATGGGGTTACTCAACATACTATCGCTGGCCTTGTGGGTGGC  
CTTCTCTGGCCTACCAGCAGACCTCAGCTTTTGCCCGCAACCCCATGATGAACCTGAGCGTGTGCGTG  
TCAGCTGTGCCATCATCTTCTTTGCCAGCATCTCCAGTTTGCCATCTGGACTACAGCCCTGCTGCATCA  
GACAGAAACACTGCAGCCAGCTGTGCAATTTGGTGGGCAGGAGCATGCTTTCATGTTTGCAAGCTTGCA  
CTGTATCCCTGTGCCAGCCTGCTGGCCTTGTGCTGCCACCTGCCTACTGAGTCGTTTCAGCACAGCCATCT  
TCCACCTCATGCAGATTTCACTGCCCTTGCATTCCTGTTGCTCCGCTCCTTGTACGCCTTGGCCTGGC  
AGGCCTTCAAGTCTACGGGGCCTCTGGCCACACCATCCCAACAAGACCAGAGTGAACCTGAGGCACAG  
TCCCAGCTCTGCTGACCCCTGCT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001163531

**Insert Size:** 1497 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_001163531.1](#), [NP\\_001157003.1](#)

**RefSeq Size:** 2963 bp

**RefSeq ORF:** 1497 bp

**Locus ID:** 72392

**Cytogenetics:** 5 F

**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]  
Transcript Variant: This variant (2) differs in the 5' UTR and uses an alternate in-frame splice junction compared to variant 4. The resulting isoform (2) has the same N- and C-termini but is 1 aa shorter compared to isoform 1.