

Product datasheet for **MC217019**

Tmem175 (NM_028223) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem175 (NM_028223) Mouse Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF: >MC217019 representing NM_028223
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCAGGCTCCAGACTGAGGAGCAGGCAGTGGATTCCGAGGGAGACTCATCCCTACACAGGAGAAATG
 AGGAGGGGACACAGAGCTCCACCGCATGCTGGGCTTCAGTGATGCACTGCTGTCCATCATCGCCACTGT
 CATGATCCTGCCTGTGACCCACACAGAGATCTCACCAGAACAGCAGTTTGACAAAAGTATACAGAAACTC
 CTAGCAACTAGGATCGTGTCTACCTCATGACATTTCTAATCGTAACTGTGGCCTGGACAGCACATACCA
 GATTGTTCCAGGTTGTTGGAAAAATAGATGATACACTTGCCTTGCTCAACCTGGCCTGTATGATGACTAT
 CACCTCTGCCCTACACATTTTACTAATGGTAACTCCCTGATGTGCCCTGGGCATCTTCTGTTC
 TGCGTGTGTGTGATCGCCATTGGATCTGTGCAGGCAATGATTGTGGGCTATGCCTTCCACTTCCACATC
 TGCTGAATCCACAAATCCAGTGTCTACACATAGGGATCTATCCCGCGGCATATCCTGCACCTGGTCT
 CCGTGGCCAGCACTGTGTTTTGTGCGGCTGTCTTTCCCTCTTCTTCCCCTTGTCATACCTGCTG
 ATGGTGACTGTACTTCTCCCTCACATCAGCAAGGCTACCACCTGGTGCAAAGACAAGTTGATGGGCC
 AAAGGGAGTCTCCAGCTCACGACATGGAGCCCTTCAGTATTGACCTGCATGCGCCCTCAGCAAAGAGCG
 GGTGGAAGCTTTCAGCGACGGTGTCTATGCCATCGTGGCCACACTCCTCATCCTGGACATCTGTGAGGAC
 AATGTTCCGGATCCCAAGGATGTGCAAGAGAAATTCAGTGGCAGCCTTGTGGCTGCCCTGGGTGCATATG
 GGCCACAATTCTTGGCATACTTCGGCTCCTTCGCCACAGTGGGTCTCCTCTGGTTTGCTCACCATTCACT
 CTTCTGCATGTCCGGAAGGCTACACAGACCATGGGGTACTCAACATACTATCGCTGGCCTTTGTGGGT
 GGCCTTCTCTGGCCTACCAGCAGACCTCAGCTTTTGGCCGCAACCCCATGATGAACTTGAGCGTGTGC
 GTGTGAGTGTGCCATCATCTTCTTGGCAGCATCTTCCAGTTTGGCATCTGGACTACAGCCCTGTGCA
 TCAGACAGAAACACTGCAGCCAGCTGTGCAATTTGGTGGCAGGAGCATGCTTTCATGTTTGCCAAGCTT
 GCACTGTATCCCTGTGCCAGCCTGCTGGCCTTGTGCCACCTGCCTACTGAGTCGTTTCAGCACAGCCA
 TCTTCCACCTCATGCAGATTTCACTGCCCCTTGTGATTCTGTTGCTCCGCTCCTTGTACGCTTGGCCT
 GGCAGGCCTTCAAGTCTACGGGGCTCTGGCCACACCATCCCCAACAGACCAGAGTGAACCTGAGGCA
 CAGTCCCAGCTCTGCTGACCCCTGCT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_028223
- Insert Size:** 1500 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_028223.3](#), [NP_082499.3](#)

RefSeq Size: 3073 bp

RefSeq ORF: 1500 bp

Locus ID: 72392

UniProt ID: [Q9CXY1](#)

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 (1) differs in the 5' UTR compared to variant 4. Variants 1, 3, and 4 all encode the same isoform (1).