

Product datasheet for **MC217887**

Tmem175 (NM_001163532) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem175 (NM_001163532) 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: >MC217887 representing NM_001163532
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGTCCAGGCTCCAGACTGAGGAGCAGGCAGTGGATTCCGAGGGAGACTCATCCCTACACAGGAGAAATG
AGGAGGGGACACAGAGCTCCACCGCATGCTGGGCTTCAGTGATGCACTGCTGTCCATCATCGCCACTGT
CATGATCCTGCCTGTGACCCACACAGAGATCTCACCAGAACAGCAGTTTGACAAAAGTATACAGAAACTC
CTAGCAACTAGGATCGTGTCTACCTCATGACATTTCTAATCGTAACTGTGGCCTGGACAGCACATACCA
GATTGTTCCAGGTTGTTGGAAAAATAGATGATACACTTGCCTTGCTCAACCTGGCCTGTATGATGACTAT
CACCTCTGCCCTACACATTTTACTAATGGTAACATTCCCTGATGTGCCCTGGGCATCTTCTGTTC
TGCGTGTGTGTGATCGCCATTGGATCTGTGCAGGCAATGATTGTGGGCTATGCCTTCCACTTCCACATC
TGCTGAATCCACAAATCCAGTGTCTACACATAGGGATCTATCCCGCGGCATATCCTGCACCTGGTCT
CCGTGGCCAGCAGCTGTGTTTTGTGCGGCTGTCTTTCCCTCTTCTTCCCCTTGTCATACCTGCTG
ATGGTGACTGTACTTCTCCCTCACATCAGCAAGGCTACCACCTGGTGCAAAGACAAGTTGATGGGCC
AAAGGGAGTCTCCAGCTCACGACATGGAGCCCTCAGTATTGACCTGCATGCGCCCTCAGCAAAGAGCG
GGTGAAGCTTTCAGCGACGGTGTCTATGCCATCGTGGCCACACTCCTCATCCTGGACATCTGTGAGGAC
AATGTTCCGGATCCCAAGGATGTGCAAGAGAAATTCAGTGGCAGCCTTGTGGCTGCCCTGGGTGCATATG
GGCCACAATTCTTGGCATACTTCGGCTCCTTCGCCACAGTGGGTCTCCTGTGTTTGTCCACATCACT
CTTCTGCATGTCCGGAAGGCTACACAGACCATGGGGTACTCAACATACTATCGCTGGCCTTTGTGGGT
GGCCTTCTCTGGCCTACCAGCAGACCTCAGCTTTTGGCCGCAACCCCATGATGAACTTGAGCGTGTGC
GTGTCAGCTGTGCCATCATCTTCTTTGCCAGCATCTTCCAGTTTGCCATCTGGACTACAGCCCTGTGCA
TCAGACAGAAACACTGCAGCCAGCTGTGCAATTTGGTGGCAGGAGCATGCTTTCATGTTTGCCAAGCTT
GCACTGTATCCCTGTGCCAGCCTGCTGGCCTTGTGCCACCTGCCTACTGAGTCGTTTTCAGCACAGCCA
TCTTCCACCTCATGCAGATTTTCAGTGCCTTTGCATTCTGTTGTCCGCTCCTTGTACGCTTGGCCT
GGCAGGCCTTCAAGTCTACGGGGCTCTGGCCACACCATCCCCAACAGACCAGAGTGAACCTGAGGCA
CAGTCCCAGCTCTGCTGACCCCTGCTAA

ACGGCTACGGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001163532

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:	<ol style="list-style-type: none">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:	<u>NM_001163532.1, NP_001157004.1</u>
RefSeq Size:	2966 bp
RefSeq ORF:	1500 bp
Locus ID:	72392
UniProt ID:	<u>Q9CXY1</u>
Cytogenetics:	5 F
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 4. Variants 1, 3, and 4 all encode the same isoform (1).</p>