

Product datasheet for **RN203627**

Tmem175 (NM_001013991) Rat Untagged Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Tmem175 (NM_001013991) Rat Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Tmem175 |
| Synonyms: | RGD1309712 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >RN203627 representing NM_001013991
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCAGGCTCCAGGTCCAGGAGCAGGCAGTGGATTCCGAGGGAGACTCATCCCTATACAGGAGAGATG
 AGGAGGGGACACAGAGCTCCACCGCATGCTGGGCTTTAGTGATGCCTTACTATCCATCATCGCCACTGT
 CATGATCCTGCCTGTGACCCACACAGAGATCTCACCAGAACAGCAGTTTGACAAAAGTATACAGAAACTT
 CTAGCAACTAGGATTGCTGTCTACCTCATGACATTTCTAATCGTAACTGTGGCCTGGGCAGCACATACCA
 GATTGTTCCAGGTTGTTGGAAAAATAGATGATACACTTGCCTTGCTCAACCTGGCCTGTATGATGACCAT
 CACCTTCTGCCCTACACATTTTCGCTAATGGTAACTCCCTGATGTGCCCTGGGCATCTTCTGTTC
 TGCATGTGTGATTGCCATTGGATCTGTGCAGGCAATGATCGTGGGTTATGCCTTCCACTTCCACATC
 TGCTGAATCCACAAATCCAGTGTCTACACATAGGGCCCTGTCCCGCGGCACATTCTGCACCTAGTCT
 CCGTGGCCAGCACTCTGTTTTGTGTCAGCTGTCTTTCCCTCTTCTTCCCCTTGTCATACCTGCTG
 ATGGTGACTGTACTTCTCCCTCACATCAGCAAGGCTACCACCTGGTGTAAAGACAAGTTTATGGGCC
 ACAGGGAGTCTCCAGCTCACAATGTAGAGCCCTTCACTATTGACCTGCATGCGCCCTCAGCAAAGAACG
 GGTGGAAGCTTTCAGTGACGGTGTCTATGCCATTGTGGCCACACTCCTCATCTTGGACATCTGTGAGGAC
 AATGTTCCGGATCCCAAGGATGTGCAACAGAAGTTCAGTGGCAGCCTTGTGGCTGCCCTGGGTGCATATG
 GGCCACAGTTCCTGGCATACTTCGGCTCCTTCGCCACAGTGGGTCTGCTCTGGTTTGGCCACCCTCACT
 CTTCTGCATGTCCGGAAGGCTACACAGACCATGGGGTTGTTCAACATACTGTACTGGCCTTTGTGGGG
 GGCCCTCCCTCTGGCCTACCAGCAGACCTCGGCGTTTGGCCGCAACCCCGTATGAACCTGAGCGCTGTGC
 GTGTGAGTGTGCCATCATCTTCTTGGCAGCATCTTCCAGTTTGGCATCTGGACTACAGCCCTGTGCA
 CCAGAGAGAAACACTGCAGCCAGCTGTGCAGTTTGGTGGCAGGAACATGCTTTCATGTTTGGCAAGCTC
 GCACTGTACCCCTGTGCCAGCCTGCTGGCCTTTCGCCACCTGCCTACTGAGTCGGTTCAGCACAGCCA
 TCTTCCACCTCATGCAGATTGCAGTGCCTTTCGCTTCTGTTGCTCCGCTCCTGGTACGCTTGGCCCT
 GGCAGGCCTTCAAGTCTATGGACCTCTGGCCAGAGCGTCCCCAACCAAGACCAGGGTGAACCCGAGACA
 CAGTCCCAGCTCTGCCTGCCTCTGCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001013991
- 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_001013991.1](#), [NP_001014013.1](#)

RefSeq Size: 1836 bp

RefSeq ORF: 1500 bp

Locus ID: 305623

UniProt ID: [Q6AY05](#)

Cytogenetics: 14p22

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]