

Product datasheet for SC336027

Transmembrane Protein 175 (TMEM175) (NM_001297425) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Transmembrane Protein 175 (TMEM175) (NM_001297425) Human Untagged Clone
Tag:	Tag Free
Symbol:	TMEM175
Synonyms:	hTMEM175
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC336027 representing NM_001297425. Blue=Insert sequence Red=Cloning site Green=Tag(s)

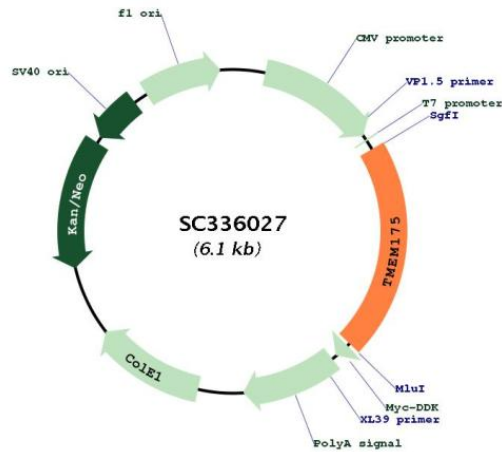
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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGACCTTTCTCATCGTGACAGTGGCCTGGGCAGCACACACAAGGTTGTTCCAAGTTGTTGGGAAAAACA
GACGACACTTGCCTGCTCAACCTGGCCTGCATGATGACCATCACCTTCCTGCCTTACACGTTTTTCG
TTAATGGTGACCTTCCCTGATGTGCCTCTGGGCATCTTCTTGTCTGTGTGTGTGATCGCCATTGGG
GTCGTGCAGGCACTGATTGTGGGTACGCATTCCACTTCCCGCACCTGCTGAGCCCGCAGATCCAGCGC
TCTGCCACAGGGCTCTGTACCGACGACACGTCTGGGCATCGTCTCCAAGCCCGCCCTGTGCTTT
GCAGCGCCATCTTCTCTCTTTTGTCCCCTTGCTTACCTGCTGATGGTGACTGTCATCCTCCTC
CCCTATGTGAGCAAGGTACCCGGCTGGTGCAGAGACAGGCTCCTGGCCACAGGGAGCCCTCGGCTCAC
CCAGTGAAGTCTTCTCGTTTGACCTCCACGACCACTCAGCAAGGAGCGCTGGAAGCCTTCAGCGAC
GGAGTCTACGCCATCGTGGCCACGCTTCTCATCCTGGACATCTGCGAAGACAACGTCCCGGACCCCAAG
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TACCAGCAGACCTCGGCCTTCGCCGGCAGCCCCGCGATGAGCTGGAGCGCGTGCGTGTGAGTGCACC
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TCCAGCTCCTCCCTGCCCTGTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_001297425

Insert Size: 1269 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_001297425.1](#)

RefSeq Size: 1658 bp

RefSeq ORF: 1269 bp

Locus ID: 84286

Cytogenetics: 4p16.3

Protein Families: Transmembrane

MW: 46.6 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]

Transcript Variant: This variant (4) differs in its 5' UTR and uses a downstream start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus, compared to isoform 1. Variants 2, 3, and 4 encode the same isoform.