

## Product datasheet for **RG238133**

### Transmembrane Protein 175 (TMEM175) (NM\_001297425) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Transmembrane Protein 175 (TMEM175) (NM_001297425) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Transmembrane Protein 175
Synonyms:	hTMEM175
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG238133 representing NM_001297425. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGACCTTTCTCATCGTGACAGTGGCCTGGGCAGCACACACAAGGTTGTTCCAAGTTGTTGGGAAAAACA
GACGACACTTGCCTGCTCAACCTGGCCTGCATGATGACCATCACCTTCTGCCTTACACGTTTTTCG
TTAATGGTGACCTTCCCTGATGTGCCTCTGGGCATCTTCTTGTCTGTGTGTGTGATCGCCATTGGG
GTCGTGCAGGCACTGATTGTGGGTACGCATTCCACTTCCCGCACCTGCTGAGCCCGAGATCCAGCGC
TCTGCCACAGGGCTCTGTACCGACGACACGTCTGGGCATCGTCTCCAAGGCCGGCCCTGTGCTTT
GCAGCGGCATCTTCTCTCTTTTGTCCCCTTGCTTACCTGCTGATGGTGACTGTCATCCTCCTC
CCCTATGTGAGCAAGGTCACCGGCTGGTGACAGACAGGCTCCTGGGCCACAGGGAGCCCTCGGCTCAC
CCAGTGAAGTCTTCTCGTTTGACCTCCACGACCACTCAGCAAGGAGCGCTGGAAGCCTTCAGCGAC
GGAGTCTACGCCATCGTGGCCACGCTTCTCATCCTGGACATCTGCGAAGACAACGTCCCGGACCCCAAG
GATGTGAAGGAGAGGTTACGCGGCAGCCTCGTGGCCGCCCTGAGTGCGACCGGGCCGCGCTTCTGGCG
TACTTCGGCTCCTTCGCCACAGTGGGACTGCTGTGGTTGCGCCACCACTCACTTCTCGCATGTGCGC
AAGGCCACGCGGGCCATGGGCTGCTGAACACGCTCTCGCTGGCCTTCTGGGTGGCCTCCCACTAGCC
TACCAGCAGACCTCGGCCTTCGCCCGGACGCCCCGCGATGAGCTGGAGCGCGTGCGTGTGAGTGCACC
ATCATCTTCTGGCCAGCATCTCCAGTGGCCATGTGGACCAGGCGCTGCTGCACCAGGCGGAGACG
CTGCAGCCCTCGGTGTGGTTTGGCGCGGGAGCATGTGCTCATGTTGCGCAAGCTGGCGCTGTACCCC
TGTGCCAGCCTGTGGCCTTCGCCTCCACCTGCCTGCTGAGCAGGTTCACTGTGGGCATCTTCCACCTC
ATGCAGATCGCCGTGCCCTGCGCCTTCTGTTGCTGCGCCTGCTCGTGGGCTGGCCCTGGCCACCTCG
CGGGTCTGCGGGGCTCGCCCGGCCGAACACCCCCGACGCCCCACGGGCCAGGACGACCCACAG
TCCAGCTCCTCCCTGCCCTG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG238133  
 Blue=ORF Red=Cloning site Green=Tag(s)

MTFLIVTVAWAAHTRLFQVVGKTDLALLNLACMMITFLPYTFSLMVTFPDVPLGIFLFCVVCVIAIG  
 VVQALIVGYAFHFPHLLSPQIQRSAHRALYRRHVLGIVLQGPALCFAAAIFSLFFVPLSYLLMVTVILL  
 PYSKVTGWCRDRLLGHREPSAHPVEVFSFDLHEPLSKERVEAFSDGVYAI VATLLILDICEDNVPDPK  
 DVKERFSGSLVAALSATGPRFLAYFGSFATVGLLWFAHHSFLHVRKATRAMGLLNTLSLAFVGGPLA  
 YQQTSAFARQPRDELERVRVSCIIIFLASIFQLAMWTTALLHQAETLQPSVWFGGREHVLMF AKLALYP  
 CASLLAFASTCLLSRFSVGI FHLMQIAVPCAFLLLRLLVGLALATLRVLRGLARPEHPPAPTGDQDPQ  
 SQLLPAPC  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV  
 MGYGFYHFGTYP SGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001297425

**ORF Size:** 1266 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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).

**RefSeq:** [NM\\_001297425.2](#)

RefSeq Size: 1658 bp

RefSeq ORF: 1269 bp

Locus ID: 84286

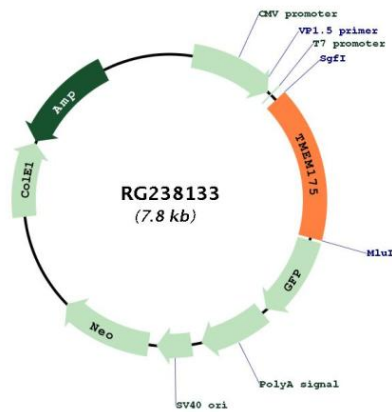
Cytogenetics: 4p16.3

Protein Families: Transmembrane

MW: 47 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]

**Product images:**



Circular map for RG238133