

Product datasheet for **RG237906**

Transmembrane Protein 175 (TMEM175) (NM_001297426) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Transmembrane Protein 175 (TMEM175) (NM_001297426) 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:	>RG237906 representing NM_001297426. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGATGACCATCACCTTCTGCCTTACACGTTTTCGTTAATGGTGACCTCCCTGATGTGCCTCTGGGC
ATCTTCTGTCTGTGTGTGTGTGATCGCCATTGGGGTCGTGCAGGCACTGATTGTGGGGTACGCATTC
CACTTCCCGCACCTGCTGAGCCCGCAGATCCAGCGCTCTGCCACAGGGCTCTGTACCGACGACACGTC
CTGGGCATCGTCCTCAAGGCCCGGCCCTGTGCTTTCAGCGGCCATCTTCTCTCTTCTTTGCCCC
TTGTCTTACCTGCTGATGGTGACTGTCATCCTCCTCCCCTATGTCAGCAAGGTCACCGGCTGGTGCAGA
GACAGGCTCCTGGCCACAGGGAGCCCTCGGCTCACCCAGTGGAAGTCTTCTCGTTTGACCTCCACGAG
CCACTCAGCAAGGAGCGGTGGAAGCCTTCAGCGACGGAGTCTACGCCATCGTGGCCACGCTTCTCATC
CTGGACATCTGCGAAGACAACGTCCCGGACCCCAAGGATGTGAAGGAGAGGTTACAGCGGCAGCCTCGTG
GCCGCCCTGAGTGCGACCGGGCCGCGCTTCTGGCGTACTTCGGCTCCTTCGCCACAGTGGGACTGCTG
TGGTTCGCCACCACTCACTTCTCCTGCATGTGCGCAAGGCCACGCGGGCCATGGGGTCTGAACACG
CTCTCGTGGCCTTCGTGGGTGGCTCCCACTAGCCTACCAGCAGACCTCGGCCCTCGCCCGCAGCCC
CGCGATGAGCTGGAGCGCGTGCCTGTGAGCTGCACCATCATCTTCTGGCCAGCATCTTCCAGCTGGCC
ATGTGGACCACGGCGCTGCTGCACAGGGGAGACGCTGCAGCCCTCGGTGTGGTTTGGCGCCGGGAG
CATGTGCTCATGTTCCCAAGCTGGCGCTGTACCCCTGTGCCAGCCTGCTGGCCTCGCCTCCACCTGC
CTGCTGAGCAGGTTCAAGTGTGGCATCTTCCACCTCATGCAGATCGCCGTGCCCTGCGCCTTCTGTTG
CTGCGCCTGCTCGTGGGCTGGCCCTGGCCACCCCTGCGGGTCTGCGGGGCTCGCCCGGCCGAACAC
CCCCCGCCAGCCCCACGGGCCAGGACGCCACAGTCCCAGCTCCTCCCTGCCCCCTGC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



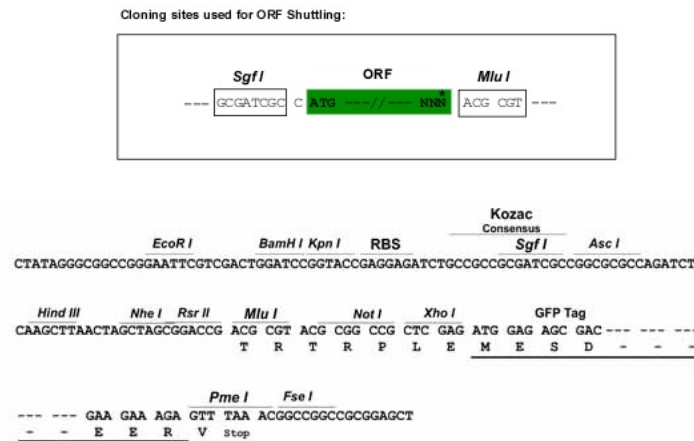
[View online »](#)

Protein Sequence: >Peptide sequence encoded by RG237906
 Blue=ORF Red=Cloning site Green=Tag(s)

MMTITFLPYTFLSMVTFPDVPLGIFLFCVCVIAIGVVQALIVGYAFHFPHLLSPQIQRSAHRALYRRHV
 LGIVLQGPALCFAAAFSLFFVPLSYLLMVTVILLPYVSKVTGWCRDRLLGHREPSAHPVEVFSFDLHE
 PLSKERVEAFSDGVYAI VATLLILDICEDNVPDPKDKERFSGSLVAALSATGPRFLAYFGSFATVGLL
 WFAHSLFLHVRKATRAMGLLNTLSLAFVGLPLAYQQTSAFARQPRDELERVRVSTCIIFLASIFQLA
 MWTALLHQAETLQPSVWFGGREHVL MF AKLALYPCASLLAFASSTCLLSRF SVGIFHLMQIAVPCAFLL
 LRLLVGLALATLRVLRGLARPEHPPAPTQDDPQSQLLPAPC
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001297426

ORF Size: 1164 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.

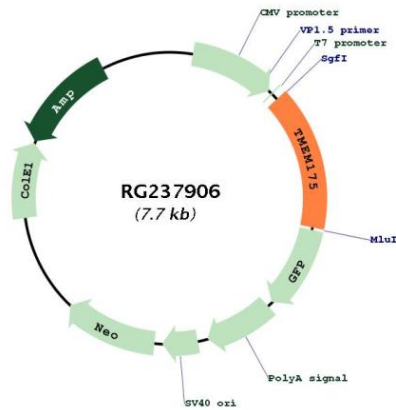
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

RefSeq: [NM_001297426.1](#), [NP_001284355.1](#)

RefSeq Size: 2125 bp

RefSeq ORF:	1167 bp
Locus ID:	84286
UniProt ID:	Q9BSA9
Cytogenetics:	4p16.3
Protein Families:	Transmembrane
MW:	43.3 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 RG237906