

## Product datasheet for RC237906

### 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:	Myc-DDK
Symbol:	TMEM175
Synonyms:	hTMEM175
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237906 representing NM_001297426 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATGACCATCACCTTCTGCCTTACACGTTTTCGTTAATGGTGACCTCCCTGATGTGCCTCTGGCA  
TCTTCTTGTCTGTGTGTGTGATCGCCATTGGGTCGTGCAGGCACTGATTGTGGGTACGCATTCCA  
CTTCCCGCACCTGCTGAGCCCGCAGATCCAGCGCTCTGCCACAGGGCTCTGTACCGACGACACGTCCTG  
GGCATCGTCTCAAGGCCCGCCCTGTGCTTTGCAGCGCCATCTTCTCTCTCTTTGTCCCTTGT  
CTTACCTGCTGATGGTACTGTCATCCTCCTCCCTATGTCAGCAAGGTCACCGGCTGGTGCAGAGACAG  
GCTCCTGGGCCACAGGGAGCCCTCGGCTCACCCAGTGAAGTCTTCTCGTTTGACCTCCACGAGCCACTC  
AGCAAGGAGCGCGTGAAGCCTTCAGCGACGGAGTCTACGCCATCGTGGCCACGCTTCTCATCCTGGACA  
TCTGCGAAGACAACGTCCCGACCCCAAGGATGTGAAGGAGAGGTTACGCGGCAGCCTCGTGGCCGCCCT  
GAGTGGACCGGGCCGCGCTTCTGGCGTACTTCGGCTCCTTCGCCACAGTGGGACTGCTGTGGTTCCGC  
CACCCTACTCTTCTGCATGTGCGCAAGGCCACGCGGGCCATGGGGCTGCTGAACACGCTCTCGCTGG  
CCTTCGTGGTGGCCTCCCACTAGCCTACCAGCAGACCTCGGCCCTCGCCCGCAGCCCGCGATGAGCT  
GGAGCGGTGCGTGTGAGCTGCACCATCATCTTCTGGCCAGCATCTTCCAGCTGGCCATGTGGACCAGG  
GCGCTGCTGCACAGCGGAGACGCTGCAGCCCTCGGTGTGGTTTGGCGCCGGGAGCATGTGCTCATGT  
TCGCCAAGCTGGCGCTGTACCCCTGTGCCAGCCTGCTGGCCTTCGCCCTCCACCTGCCTGCTGAGCAGTT  
CAGTGTGGGCATCTTCCACCTCATGCAGATCGCCGTGCCCTGCGCCTTCTGTTGCTGCGCTGCTCGTG  
GGCCTGGCCCTGGCCACCCTGCGGGTCTGCGGGGCTCGCCCGGCCGAACACCCCGCCAGCCCCCA  
CGGGCCAGGACACCCACAGTCCAGCTCCTCCCTGCCCTGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237906 representing NM\_001297426  
Red=Cloning site Green=Tags(s)

MMTITFLPYTFSLMVTFPDVPLGIFLFCVCVIAIGVVQALIVGYAFHFPHLLSPQIQRSAHRALYRRHVL  
 GIVLQGPALCFAAAIFSLFFVPLSYLLMVTVILLPYVSKVTGWCRDRLLGHREPSAHPVEVFSFDLHEPL  
 SKERVEAFSDGVYAIVATLLILDICEDNVPDPKDVKERFSGSLVAALSATGPRFLAYFGSFATVGLLWFA  
 HHSLFLHVRKATRAMGLLNTLSLAFVGGPLAYQQTSAFARQPRDELERVRVSCIIIFLASIFQLAMWTT  
 ALLHQAETLQPSVWFGGREHVLMF AKLALYP CASLLAF ASTCLLSRF SVGIFHLMQI AVPCAFLLLRLLY  
 GLALATLRVLRGLARPEHPPAPT GQDDPQS QLLPAPC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

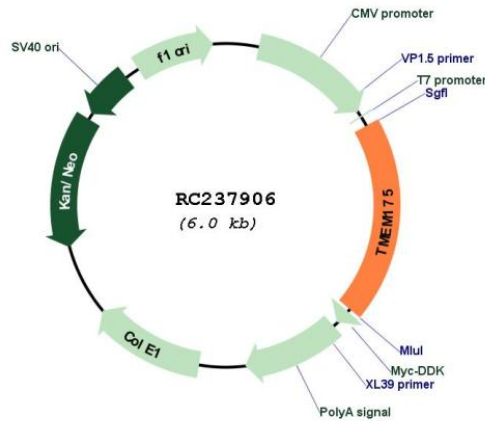
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001297426

<b>ORF Size:</b>	1164 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001297426.1</a> , <a href="#">NP_001284355.1</a>
<b>RefSeq Size:</b>	2125 bp
<b>RefSeq ORF:</b>	1167 bp
<b>Locus ID:</b>	84286
<b>UniProt ID:</b>	<a href="#">Q9BSA9</a>
<b>Cytogenetics:</b>	4p16.3
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	43.3 kDa
<b>Gene Summary:</b>	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]