

Product datasheet for RC237908

Transmembrane Protein 175 (TMEM175) (NM_001297428) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Transmembrane Protein 175 (TMEM175) (NM_001297428) 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:	>RC237908 representing NM_001297428 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGACCATCACCTTCTGCCTTACACGTTTTCGTTAATGGTGACCTCCCTGATGTGCCTCTGGGCA
TCTTCTTGTCTGTGTGTGTGATCGCCATTGGGGTCGTGCAGGCACTGATTGTGGGTACGCATTCCA
CTTCCCGCACCTGCTGAGCCCGCAGATCCAGCGCTCTGCCACAGGGCTCTGTACCGACGACACGTCCTG
GGCATCGTCTCAAGGCCCGGCCCTGTGCTTTGCAGCGCCATCTTCTCTCTCTTTGTCCCTTGT
CTTACCTGCTGATGGTACTGTCATCCTCCTCCCTATGTGAGCAAGGTACCGGCTGGTGCAGAGACAG
GCTCCTGGGCCACAGGGAGCCCTCGGCTCACCCAGTGGAAAGTCTTCTCGTTTGACCTCCACGAGCCACTC
AGCAAGGAGCGCGTGGAAAGCCTTCAGCGACGGAGTCTACGCCATCGTGGCCACGCTTCTCATCCTGGACA
TCTGCGAAGACAACGTCCCGGACCCCAAGGATGTGAAGGAGAGGTTACGCGGCAGCCTCGTGGCCGCCCT
GAGTGGACCGGGCCGCGCTTCTGGCGTACTTCGGCTCCTTCGCCACAGTGGGACTGCTGTGGTTCCGC
CACCCTACTCTTCTGCATGTGCGCAAGGCCACGCGGGCCATGGGGCTGCTGAACACGCTCTCGCTGG
CCTTCGTGGTGGCCTCCCACTAGCCTACCAGCAGACCTCGGCCCTCGCCCGCAGCCCGCGATGAGCT
GGAGCGGTGCGTGTGAGCTGCACCATCATCTTCTGGCCAGCATCTTCCAGCTGGCCATGTGGACCAGG
GCGCTGCTGCACAGCGGAGACGCTGCAGCCCTCGGTGTGGTTTGGCGCCGGGAGCATGTGCTCATGT
TCGCCAAGCTGGCGCTGTACCCCTGTGCCAGCCTGCTGGCCTTCGCCCTCCACCTGCCTGCTGAGCAGTT
CAGTGTGGGCATCTTCCACCTCATGCAGATCGCCGTGCCCTGCGCCTTCTGTTGCTGCGCCTGCTCGT
GGCCTGGCCCTGGCCACCCTGCGGGTCTGCGGGGCTCGCCCGGCCGAACACCCCGCCAGCCCCCA
CGGGCCAGGACGACCCACAGTCCAGCTCCTCCCTGCCCTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237908 representing NM_001297428
Red=Cloning site Green=Tags(s)

MMTITFLPYTFSLMVTFPDVPLGIFLFCVCVIAIGVVQALIVGYAFHFPHLLSPQIQRSAHRALYRRHVL
 GIVLQGPALCFAAAIFSLFFVPLSYLLMVTVILLPVYVKVTGWCRDRLLGHREPSAHPVEVFSFDLHEPL
 SKERVEAFSDGVYAIVATLLILDICEDNVPDPKDVKERFSGSLVAALSATGPRFLAYFGSFATVGLLWFA
 HHSLFLHVRKATRAMGLLNTLSLAFVGGPLAYYQQTSAFARQPRDELERVRVSCIIIFLASIFQLAMWTT
 ALLHQAEATLQPSVWFGGREHVMF AKLALYPCASLLAFASTCLLSRF SVGIFHLMQIAVPCAFLLLRLLY
 GLALATLRVLRGLARPEHPPAPTGTQDDPQSQLLPAPC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

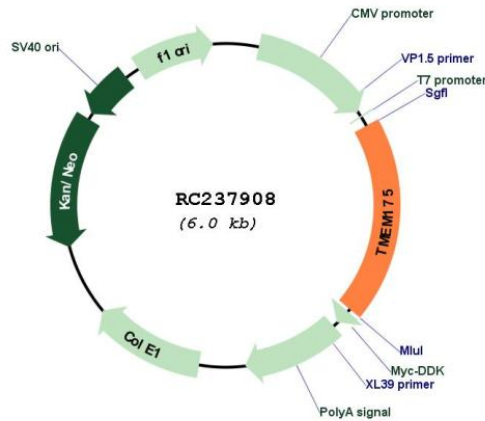
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001297428

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).
Reconstitution Method:	<ol style="list-style-type: none">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_001297428.2
RefSeq Size:	1697 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]