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Product datasheet for RC238132

Transmembrane Protein 175 (TMEM175) (NM_001297424) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Transmembrane Protein 175 (TMEM175) (NM_001297424) 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:	>RC238132 representing NM_001297424 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGACCTTTCTCATCGTGACAGTGGCCTGGGCAGCACACACAAGGTTGTTCCAAGTTGTTGGGAAAACAG ACGACACACTTGCCCTGCTCAACCTGGCCTGCATGATGACCATCACCTTCCTGCCTTACACGTTTTCGTT AATGGTGACCTTCCCTGATGTGCCTCTGGGCATCTTCTTGTTCTGTGTGTGTGTGATCGCCATTGGGGTC GTGCAGGCACTGATTGTGGGGTACGCATTCCACTTCCCGCACCTGCTGAGCCCGCAGATCCAGCGCTCTG CCCACAGGGCTCTGTACCGACGACACGTCCTGGGCATCGTCCTCCAAGGCCCGGCCCTGTGCTTTGCAGC GGCCATCTTCTCTCTCTTCTTTGTCCCCTTGTCTTACCTGCTGATGGTGACTGTCATCCTCCTCCCCTAT GTCAGCAAGGTCACCGGCTGGTGCAGAGACAGGCTCCTGGGCCACAGGGAGCCCTCGGCTCACCCAGTGG AAGTCTTCTCGTTTGACCTCCACGAGCCACTCAGCAAGGAGCGCGTGGAAGCCTTCAGCGACGGAGTCTA CGCCATCGTGGCCACGCTTCTCATCCTGGACATCTGCGAAGACAACGTCCCGGACCCCAAGGATGTGAAG GAGAGGTTCAGCGGCAGCCTCGTGGCCGCCCTGAGTGCGACCGGGCCGCGCTTCCTGGCGTACTTCGGCT CCTTCGCCACAGTGGGACTGCTGTGGTTCGCCCACCACTCACTCTTCCTGCATGTGCGCAAGGCCACGCG GGCCATGGGGCTGCTGAACACGCTCTCGCTGGCCTTCGTGGGTGGCCTCCCACTAGCCTACCAGCAGACC TCGGCCTTCGCCCGGCAGCCCCGCGATGAGCTGGAGCGCGTGCGTGTCAGCTGCACCATCATCTTCCTGG CCAGCATCTTCCAGCTGGCCATGTGGACCACGGCGCTGCTGCACCAGGCGGAGACGCTGCAGCCCTCGGT GTGGTTTGGCGGCCGGGAGCATGTGCTCATGTTCGCCAAGCTGGCGCTGTACCCCTGTGCCAGCCTGCTG GCCTTCGCCTCCACCTGCCTGCTGAGCAGGTTCAGTGTGGGCATCTTCCACCTCATGCAGATCGCCGTGC CCTGCGCCTTCCTGTTGCTGCGCCTGCTCGTGGGCCTGGCCCTGGCCACCCTGCGGGTCCTGCGGGGCCT CGCCCGGCCCGAACACCCCCCGCCAGCCCCCACGGGCCAGGACGACCCACAGTCCCAGCTCCTCCCTGCC CCCTGC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

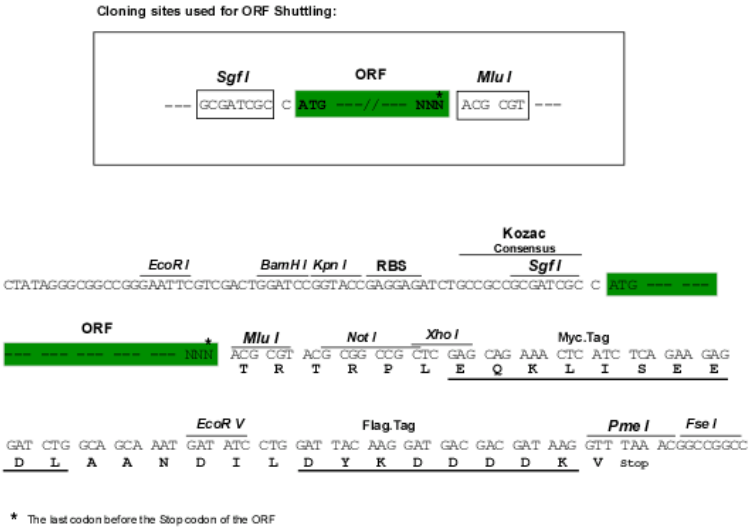
>RC238132 representing NM_001297424
Red=Cloning site Green=Tags(s)

MTFLIVTVAWAAHTRLFQVVGKTDDTLALLNLACMMTITFLPYTFSLMVTFPDVPLGIFLFCVCVIAIGV
VQALIVGYAFHFPHLLSPQIQRSAHRALYRRHVLGIVLQGPALCFAAAIFSLFFVPLSYLLMVTVILLPY
VSKVTGWCRDRLLGHREPSAHPVEVFSFDLHEPLSKERVEAFSDGVYAIVATLLILDICEDNVPDPKDVK
ERFSGSLVAALSATGPRFLAYFGSFATVGLLWFAHHSLFLHVRKATRAMGLLNTLSLAFVGGLPLAYQQT
SAFARQPRDELERVRVSCTIIFLASIFQLAMWTTALLHQAETLQPSVWFGGREHVLMFAKLALYPCASLL
AFASTCLLSRFSVGIFHLMQIAVPCAFLLLRLLVGLALATLRVLRGLARPEHPPPAPTGQDDPQSQLLPA
PC

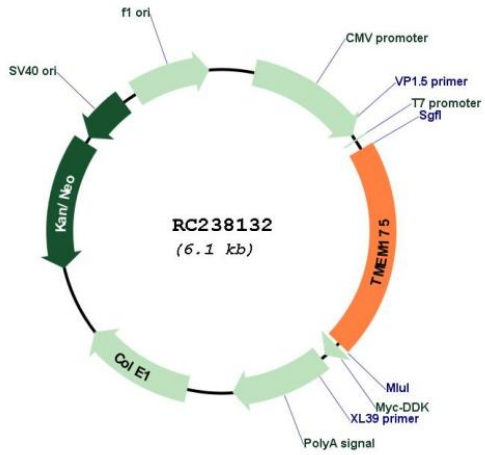
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001297424

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).
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_001297424.2
RefSeq Size:	1661 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 lumenal pH stability and is required for autophagosome-lysosome fusion. Constitutes the major lysosomal potassium channel.[UniProtKB/Swiss-Prot Function]