

## Product datasheet for **RG237908**

### 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:	TurboGFP
Symbol:	TMEM175
Synonyms:	hTMEM175
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237908 representing NM_001297428. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGATGACCATCACCTTCTGCCTTACACGTTTTCGTTAATGGTGACCTCCCTGATGTGCCCTGGGC
ATCTTCTGTCTGTGTGTGTGTGATCGCCATTGGGGTCGTGCAGGCACTGATTGTGGGGTACGCATTC
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CTGGGCATCGTCTCCAAGGCCCGGCCCTGTGCTTTGCAGCGGCCATCTCTCTCTTCTTTGCCCC
TTGTCTTACCTGCTGATGGTGACTGTCATCCTCCTCCCCTATGTCAGCAAGGTCACCGGCTGGTGCAGA
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CCACTCAGCAAGGAGCGGTGGAAGCCTTCAGCGACGGAGTCTACGCCATCGTGGCCACGCTTCTCATC
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TGGTTCGCCACCACTCACTCTTCTGCATGTGCGCAAGGCCACGCGGGCCATGGGGTCTGAACACG
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CGCGATGAGCTGGAGCGCGTGCCTGTGAGCTGCACCATCATCTTCTGGCCAGCATCTTCCAGCTGGCC
ATGTGGACCACGGCGTCTGCACAGGGCGGAGACGCTGCAGCCCTCGGTGTGGTTGGCGGCCGGGAG
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CTGCTGAGCAGGTTCAAGTGGGATCTTCCACCTCATGCAGATCGCCGTGCCCTGCGCCTTCTGTTG
CTGCGCCTGCTCGTGGGCTGGCCCTGGCCACCCCTGCGGGTCTGCGGGGCTCGCCCGGCCGAACAC
CCCCCGCCAGCCCCACGGGCCAGGACGACCCACAGTCCAGCTCCTCCCTGCCCTGCTG
ACGCGTACGCGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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Protein Sequence: >Peptide sequence encoded by RG237908  
 Blue=ORF Red=Cloning site Green=Tag(s)

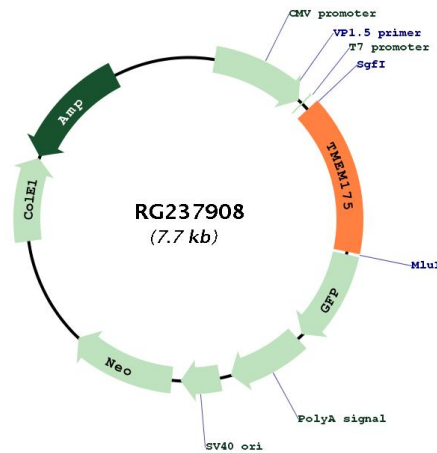
MMTITFLPYTFSLMVTFPDVPLGIFLFCVVCVIAIGVVQALIVGYAFHFPHLLSPQIQRSARALYRRHV  
 LGIVLQGPALCFAAAIFSLFFVPLSYLLMVTVILLPYVSKVTGWCRDRLLGHREPSAHPVEVFSFDLHE  
 PLSKERVEAFSDGVYAI VATLLILDICEDNVPDPKDKERFSGSLVAALSATGPRFLAYFGSFATVGLL  
 WFAHHSFLHVRKATRAMGLLNTLSLAFVGLPLAYQQTSAFARQPRDELERVRSCTIIFLASIFQLA  
 MWTALLHQAETLQPSVWFGGREHVL MF AKLAL YPCASLLAFAS TCLS RFSVGIFHLMQI AVPCAFLL  
 LRLLVGLALATLRVLRGLARPEHPPAPTGDQPQSQLLPAPC  
**TRTRPLE**ME SDE SGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYP SGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



<b>ACCN:</b>	NM_001297428
<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>RefSeq:</b>	<a href="#">NM_001297428.2</a>
<b>RefSeq Size:</b>	1697 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]