

Product datasheet for **RG236179**

TMEM159 (NM_001301769) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TMEM159 (NM_001301769) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: TMEM159
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG236179 representing NM_001301769.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCAAAGAGGAGCCCAAGTATCTCAAGGACTTGCAGGAAGCTGCAGAAGAAGCTGTCTCTGCTG
ATAGACTCCTTCCAGAATAACTCAAAGTGGTGGCCTTTATGAAGTCTCCAGTGGGTGACTACTGGAC
AGCCATCCGTTTCTGGCCTTACCTTGCCTGTTTTCATGTCATGTCGGCCGTTCTCTGTTGGATTCTT
CTGCTCATCGTGGTGCTTACCACCTGGCTGCTGCTGCTGGGGTGCATAATATTGGAAGGATTGGTCATC
TCTGTGGTGGCTTCTCACTGCTCTGCATCCTCTGTGGTTTGGGCTTCGTATCACTCGCCATGTCGGGG
ATGATGATAGCATCTTATGTAGTGGTCTCCAGCTCATCAGCTGCTGTTTCTCCAGGCCACTGACA
CAGCAAAACACCAGTTGTGACTTCTGCCAGCCATGAAGTCTGCAGAATTCGAGGGGCTTTACCAGGAA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236179
Blue=ORF Red=Cloning site Green=Tag(s)

```
MAKEEPQISRDLEQLQKLSLLIDSFQNNKVVAFMKSPVQYLDHPFLAFTLLVFIIVMSAVPVGFF
LLIVVLTTLAALLGVIIILEGLVISVGGFSLLCILCGLGFVSLAMSGMMIASYVVVSSLISCWFSPRPLT
QQNTSCDFLPAMKSAEFLYQE
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNTAVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_001301769

ORF Size: 483 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_001301769.2](#)

RefSeq Size: 2072 bp

RefSeq ORF: 486 bp

Locus ID: 57146

UniProt ID: [Q96B96](#)

Cytogenetics: 16p12.3

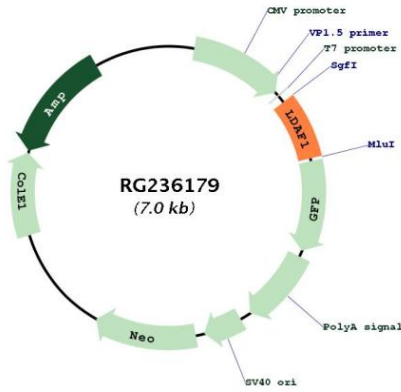
Protein Families: Transmembrane

MW: 18 kDa

Gene Summary:

Plays an important role in the formation of lipid droplets (LD) which are storage organelles at the center of lipid and energy homeostasis (PubMed:31708432). In association with BSCL2/seipin, defines the sites of LD formation in the endoplasmic reticulum (PubMed:31708432).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG236179