

Product datasheet for **RG235549**

TMEM159 (NM_001301774) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TMEM159 (NM_001301774) 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: >RG235549 representing NM_001301774.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCAAAGAGGAGCCCCAGAGTATCTCAAGGACTTGCAGAACTGCAGAAGAAGCTGTCTCTGCTG
ATAGACTCCTCCAGAATAACTCAAAGTGGTGGCCTTTATGAAGTCTCCAGTGGTCACTACTGGAC
AGCCATCCGTTTCTGGCCTTACCTTGCTGGTGTTCATTGTCATGTCGGCCGTTCTGTTGGATTCTTC
CTGCTCATCGTGGTGCTTACCACCCTGGCTGCTGCTGGGGTGCATAATATTGGAAGGCCAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG235549
Blue=ORF Red=Cloning site Green=Tag(s)

```
MAKEEPQSI SRDLQELQKLLSLLIDSFQNNKVVAFMKSPVQYLD SHPFLAFTLLV FIVMSAVPVGFF
LLIVVLTTLAALLGVIIILEGH
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYTNRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLSLRDGGYSSVVD SHMHFKSAIHP SILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: Sgfl-Mlul



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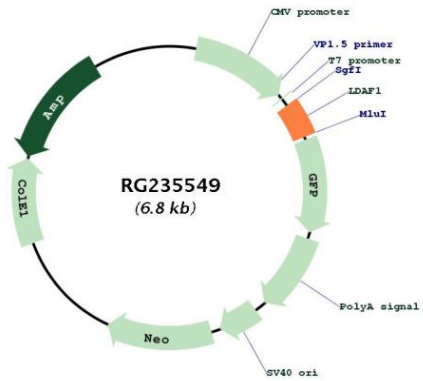
Cloning Scheme:


- ACCN:** NM_001301774
- ORF Size:** 270 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_001301774.2](#)
- RefSeq Size:** 1902 bp
- RefSeq ORF:** 273 bp
- Locus ID:** 57146
- UniProt ID:** [Q96B96](#)
- Cytogenetics:** 16p12.3
- Protein Families:** Transmembrane

MW: 10.4 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 RG235549