

Product datasheet for **RG236375**

TMEM159 (NM_001301775) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TMEM159 (NM_001301775) 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: >RG236375 representing NM_001301775.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCAAAGAGGAGCCCAAGATATCTCAAGGACTTGCAAGAACTGCAGAAGAAGCTGTCTCTGCTG
ATAGACTCCTTCCAGAATAACTCAAAGCTGCCCAACACAGCAGGATCTCACTGGACTCTGATGATGGA
GTGTCCAGGCTGGGAGTGTGGCTCCAAGGTGGTGGCTTTATGAAGTCTCCAGTGGGTCAGTACTTG
GACAGCCATCCGTTTCTGGCCTCACCTTGCTGGTGTTCATTGTCATGTCGGCCGTTCTCTGTTGGATT
TTCTGCTCATCGTGGTGTACCACCCCTGGCTGCTGCTGGGGTATAATATTGGAAGGATTGGTC
ATCTGTGGGTGGCTTCTCACTGCTGTCATCCTCTGTGGTTTGGCTTCGTATCACTCGCCATGTCG
GGGATGATAGCATCTTATGTAGTGGTCTCCAGCCTCATCAGCTGCTGGTTTTCTCCAGGCCACTG
ACACAGCAAACACAGTTGTGACTTTCTGCCAGCCATGAAGTCTGCAGAATTCGAGGGCTTTACCAG
GAA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236375
Blue=ORF Red=Cloning site Green=Tag(s)

```
MAKEEPQSI SRDLQELQKLSLLIDSFQNNSKLPQHSRISLSDDDGVSRLGSAGSKVAVFMKSPVQYL
DSHPFLAFTLLVFIVMSAVPVGFFLLIVLTTLAALLGVIILEGLVISVGGFSLLCILCGLGFVSLAMS
GMMIASYVVVSSLI SCWFSPRPLTQQNTSCDFLPAMKSAEFEGLYQE
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: SgfI-MluI

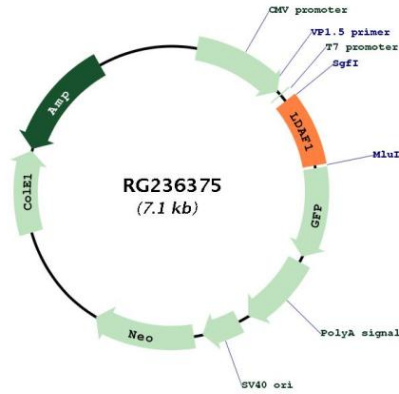


Cloning Scheme:


- ACCN:** NM_001301775
- ORF Size:** 555 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_001301775.2](#)
- RefSeq Size:** 2113 bp
- RefSeq ORF:** 558 bp
- Locus ID:** 57146
- UniProt ID:** [Q96B96](#)
- Cytogenetics:** 16p12.3
- Protein Families:** Transmembrane
- MW:** 20.4 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 RG236375