

## Product datasheet for **RG236180**

### **TMEM159 (NM\_001301771) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TMEM159 (NM\_001301771) 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:** >RG236180 representing NM\_001301771.  
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCAAAGAGGAGCCCAAGTATCTCAAGGACTTGCAGGAAGCTGCAGAAGAAGCTGTCTCTGCTG
ATAGACTCCTTCCAGAATAACTCAAAGTGGTGGCCTTATGAAGTCTCCAGTGGGTGACTTGGAC
AGCCATCCGTTTCTGGCCTTACCTTGTGTTTTCATGTCATGTCGGCCGTTCTCTGTTGGATTCTT
CTGCTCATCGTGGTGCTTACCACCTGGCTGCTCTGCTGGGGTGCATAATATTGGAAGGATTGGTCATC
TCTGTGGTGGCTTCTCACTGCTCTGCATCCTCTGTGGTTTGGGCTTCGTATCACTCGCCATGTCGGGG
ATGATGATAGCATCTTATGTAGTGGTCTCCAGCCTCATCAGCTGCTGGTTTCTCCAGGCCACTGACA
CAGCAAAACACCAGTTGTGACTTCTGCCAGCCATGAAGTCTGCAGAATTCGAGGGGCTTTACCAGGAA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG236180  
Blue=ORF Red=Cloning site Green=Tag(s)

```
MAKEEPQISRDLEQLQKLSLLIDSFQNNKVVAFMKSPVQYLDHPFLAFTLLVFIVMSAVPVGFF
LLIVVLTTLAALLGVIIILEGLVISVGGFSLLCILCGLGFVSLAMSGMMIASYVVVSSLISCWFSPRPLT
QQNTSCDFLPAMKSAEFGLYQE
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_001301771

**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\\_001301771.2](#)

**RefSeq Size:** 2041 bp

**RefSeq ORF:** 486 bp

**Locus ID:** 57146

**UniProt ID:** [Q96B96](#)

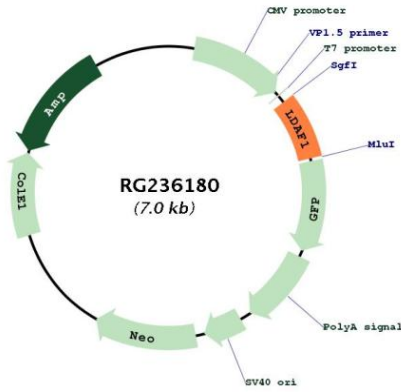
**Cytogenetics:** 16p12.3

**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 RG236180