

## Product datasheet for **RG200560**

### TMEM147 (NM\_032635) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM147 (NM_032635) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TMEM147
Synonyms:	NIFIE14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200560 representing NM_032635 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCCTGTTTCACTTCGGGAAGTCTTCGCTCTTGCCACTTCCCCTACTTCATCACCTACAAGTGCA  
GCGGCCTGTCCGAGTACAACGCCTTCTGGAAATGCGTCCAGGCTGGAGTACCTACCTCTTTGTCCAAC  
CTGCAAGATGCTGTTCTTGGCCACTTTCTTCCCACCTGGGAAGCGGCATCTATGACTTATTGGGGAG  
TTCATGAAGGCCAGCGTGGATGTGGCAGACCTGATAGGTCTAAACCTTGTCATGTCCCGAATGCCGGCA  
AGGGAGAGTACAAGATCATGGTTGCTGCCCTGGGCTGGGCCACTGCTGAGCTTATTATGTCCCGCTGCAT  
TCCCCTATGGGTCCGAGCCCGGGCATTGAGTTTGACTGGAAGTACATCCAGATGAGCATAGACTCCAAC  
ATCAGTCTGGTCCATTACATCGTCGCTGCTCAGGTCTGGATGATAACACGCTATGATCTGTACCACA  
CCTTCCGGCCAGCTGTCCTCCTGCTGATGTTTCTCAGTGTCTACAAGGCCTTTGTATGGAGACCTTCGT  
CCACCTCTGCTCGCTGGCAGTTGGCAGCTCTACTGGCCCGAGCAGTGGTAACGGGGCTGCTGGCCCTC  
AGCACTTTGGCCCTGTATGTCGCCGTTGTCAATGTGCACTCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

**Protein Sequence:** >RG200560 representing NM\_032635  
 Red=Cloning site Green=Tags(s)

MTLFHFGNCFALAYFPYFITYKCSGLSEYNAFWKCVQAGVTYL FVQLCKMLFLATFFPTWEGGIYDFIGE  
 FMKASVDVADL IGLNLVMSRNAGKGEYKIMVAALGWATAELIMSRCIPLWVGARGIEFDWKYIQMSIDSN  
 ISLVHYIVASAQVWMITRYDLYHTFRPAVLLL MFLSVYKAFVME TFVHLC SLGSAALLARAVVTGLLAL  
 STLALYVAVVNVHS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_032635

**ORF Size:** 672 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).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_032635.4](#)

**RefSeq Size:** 869 bp

**RefSeq ORF:** 675 bp

**Locus ID:** 10430

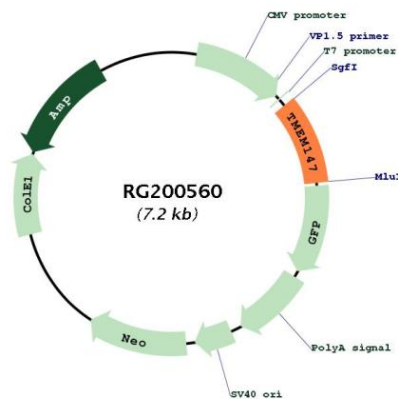
**UniProt ID:** [Q9BVK8](#)

**Cytogenetics:** 19q13.12

**Protein Families:** Druggable Genome, GPCR, Transmembrane

**Gene Summary:** Acts as a negative regulator of CHRM3 function, most likely by interfering with its trafficking to the cell membrane (PubMed:21056967). Negatively regulates CHRM3-mediated calcium mobilization and activation of RPS6KA1/p90RSK activity (PubMed:21056967).  
[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for RG200560