

Product datasheet for **RG231968**

TMEM147 (NM_001242597) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TMEM147 (NM_001242597) 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: >RG231968 representing NM_001242597
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGTTCTTGGCCACTTTCTTTCCACCTGGGAAGGCGGCATCTATGACTTCATTGGGGAGTTCATGA
 AGGCCAGCGTGGATGTGGCAGACCTGATAGGTCTAAACCTTGTCATGTCCCAGGATGCCGGCAAGGGAGA
 GTACAAGATCATGGTTGCTGCCCTGGGCTGGGCCACTGCTGAGCTTATTATGTCCCGCTGCATCCCTA
 TGGGTCGGAGCCCGGGCATTGAGTTTGACTGGAAGTACATCCAGATGAGCATAGACTCCAACATCAGTC
 TGGTCCATTACATCGTCGCGTCTGCTCAGGTCTGGATGATAACACGCTATGATCTGTACCACACCTCCG
 GCCAGCTGTCTCCTCTGCTGATGTTCCCTCAGTGTCTACAAGGCCTTTGTTATGGAGACCTTCGTCCACCTC
 TGCTCGTGGGACAGTTGGGCAGCTCTACTGGCCCGAGCAGTGGTAACGGGGCTGTGGCCCTCAGCACTT
 TGGCCCTGTATGTGCGCGTTGTCAATGTGCACTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG231968 representing NM_001242597
 Red=Cloning site Green=Tags(s)

MLFLATFFPTWEGGIYDFIGEFMKASVDVADLIGLNLVMSRNAGKGEYKIMVAALGWATAELIMSRCIPL
 WVGARGIEFDWKYIQMSIDSNISLVHYIVASAQVMMITRYDLYHTFRPAVLLLMFLSVYKAFVMTFVHL
 CSLGSAALLARAVVTGLLALSTLALYVAVNVHS

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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:	<ol style="list-style-type: none">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:	<u>NM_001242597.2</u>
RefSeq Size:	980 bp
RefSeq ORF:	528 bp
Locus ID:	10430
UniProt ID:	<u>Q9BVK8</u>
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]