

## Product datasheet for **RG212590**

### **TMEM231 (NM\_001077418) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TMEM231 (NM\_001077418) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** TMEM231  
**Synonyms:** ALYE870; JBTS20; MKS11; PRO1886  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG212590 representing NM\_001077418  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGCTCTATGAGCTTCTCTCACCCGGTCGAGCGCAGTTACCGCGCGGGGCTCTGCTCCAAAGCCG  
 CGCTGTTCTGCTGCTGGCCGCTGCGCTCACGTACATCCCGCCGCTGCTGGTGGCCTCCGGAGCCACGG  
 GTTTTGGCTGAAGCGGAGCAGCTACGAGGAGCAGCCGACCGTGCCTTCCAAACACCAGGTGCTGCTCGT  
 GCCCTGCTCGGACCCGAAAGCGACGGTTCCTCGCCTGGAGCACGTTCCCGCCTCAACCGGCTGCAAG  
 GGGATCGCCTGCGCGTCCCGCTCGTTTCGACTAGAGAAGAAGACAGGAACCAGGATGGGAAGACGGACAT  
 GTTACATTTTAAGCTGGAGCTTCCCTGCAGTCCACGGAGCACGTTCTCGGTGTGCAGCTCATCCTGACT  
 TTCTCCTATCGATTACACAGGATGGCGACCCTCGTGATGCAGAGCATGGCGTTTCTCCAGTCTCTTTTC  
 CTGTCCCGGGATCCCAGTTATACGTGAACGGAGACCTGAGGCTGCAGCAGAAGCAGCCGCTGAGCTGTGG  
 TGGCCTAGATGCCGATACAACATATCCGTGATCAACGGGACCAGCCCCTTTGCCTATGACTACGACCTC  
 ACCCATATTGTTGCTGCCTACCAGGAGAGGAACGTTACCACCGTCTGAATGATCCCAACCCCATCTGGC  
 TGGTGGGAGGGCCGAGATGCTCCATTTGTGATTAATGCTATCATCCGATACCTGTGGAAGTCATTTTC  
 TTATCAGCCAGGATTCTGGGAGATGGTAAAGTTTCGCTGGGTGCAGTATGTCAGCATCCTGCTTATCTTC  
 CTCTGGGTGTTTGAAGAATCAAGATCTTCGTGTTTCAGAATCAGGTGGTGACCACCATTCTGTGACAG  
 TGACGCCCCGGGAGACTTGTGAAGGAGCACTTATCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG212590 representing NM\_001077418  
 Red=Cloning site Green=Tags(s)

MALYELFVSHPVERSYRAGLCSKAALFLLAAALTYIPPLLVAFRSHGFWLKRSSYEEQPTVRFQHQVLLV  
 ALLGPESDGLAWSTFFAFNRLQGDRLRVPLVSTREEDRNQDGKTDMLHFKLELPLQSTEHVLGVQLILT  
 FSYRLHRMATLVMQSMFLQSSFPVPGSQLYVNGDLRLQQKQPLSCGGLDARYNISVINGTSPFAYDYDL  
 THIVAAYQERNVTTVLNDPNPIWLVGRAADAPFVINAIIRYPVEVISEYQPGFWEVVKFAWVQYVSILLIF  
 LWVFERIKIFVFQNVVTTIPVTVTPRGDLCKEHLIS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001077418

**ORF Size:** 948 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\\_001077418.3](#)

**RefSeq Size:** 2911 bp

**RefSeq ORF:** 951 bp

**Locus ID:** 79583

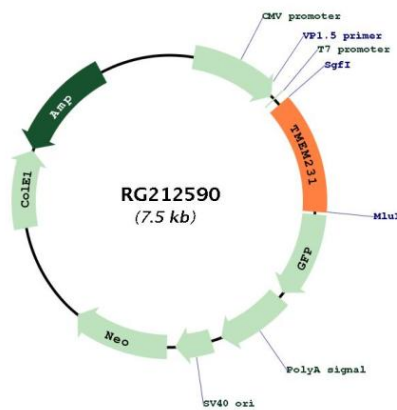
**UniProt ID:** [Q9H6L2](#)

**Cytogenetics:** 16q23.1

**Protein Families:** Transmembrane

**Gene Summary:** This gene encodes a transmembrane protein, which is a component of the B9 complex involved in the formation of the diffusion barrier between the cilia and plasma membrane. Mutations in this gene cause Joubert syndrome (JBTS). Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jan 2013]

## Product images:



Circular map for RG212590