

## Product datasheet for **RG231969**

### **RAB6A (NM\_001243719) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RAB6A (NM\_001243719) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** RAB6A  
**Synonyms:** RAB6  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG231969 representing NM\_001243719  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTATGACAGTTTTGACAACACCTATCAGGCAACAATTGGCATTGACTTTTTATCAAAAATATGTACT  
 TGGAGGATCGAACAATCAGGCTTCAGCTGTGGGATACTGCGGGTCAGGAACGTTCCGTAGCCTCATTCC  
 CAGTTACATCCGTGATTCTGCTGCAGCTGTAGTAGTTTACGATATCACAATGTTAACTCATTCCAGCAA  
 ACTACAAAGTGGATTGATGATGTCAGAACAGAAAGAGGAAGTATGTTATCATCATGCTAGTAGGAAATA  
 AAACAGATCTTGCTGACAAGAGGCAAGTGTCAATTGAGGAGGGAGAGAGGAAAGCCAAAGAGCTGAATGT  
 TATGTTTATTGAAACTAGTGCAAAAGCTGGATACAATGTAAGCAGCTCTTCGACGTGTAGCAGCAGCT  
 TTGCCGGGAATGGAAAGCACACAGGACAGAAGCAGAGAAGATATGATTGACATAAAAAGCTGAAAAGCCTC  
 AGGAGCAACCAAGTCAGTGAAGGAGGCTGTTCTCTGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG231969 representing NM\_001243719  
 Red=Cloning site Green=Tags(s)  
 MYDSFDNTYQATIGIDFLSKTMYLEDRTIRLQLWDTAGQERFRSLIPSYIRDSAAVVVYDITNVNSFQQ  
 TTKWIDDVVERTERGSVDVIMLVGNKTDLADKRQVSIIEEGERKAKELNVMFIETSAKAGYNNKQLFRRVAAA  
 LPGMESTQDRSREDMIDIKLEKQPQVSEGGCSC

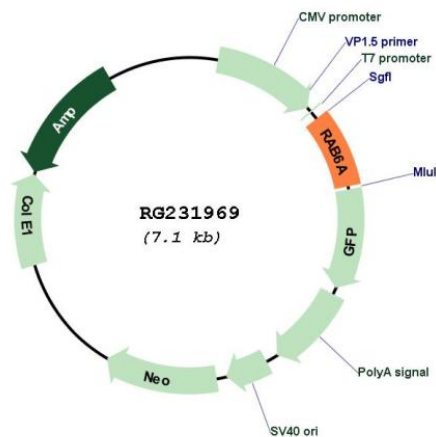
**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001243719

**ORF Size:** 525 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001243719.1</a></u> , <u><a href="#">NP_001230648.1</a></u>
<b>RefSeq Size:</b>	2863 bp
<b>RefSeq ORF:</b>	528 bp
<b>Locus ID:</b>	5870
<b>UniProt ID:</b>	<u><a href="#">P20340</a></u>
<b>Cytogenetics:</b>	11q13.4
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	<p>This gene encodes a member of the RAB family, which belongs to the small GTPase superfamily. GTPases of the RAB family bind to various effectors to regulate the targeting and fusion of transport carriers to acceptor compartments. This protein is located at the Golgi apparatus, which regulates trafficking in both a retrograde (from early endosomes and Golgi to the endoplasmic reticulum) and an anterograde (from the Golgi to the plasma membrane) directions. Myosin II is an effector of this protein in these processes. This protein is also involved in assembly of human cytomegalovirus (HCMV) by interacting with the cellular protein Bicaudal D1, which interacts with the HCMV virion tegument protein, pp150. Multiple alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Aug 2011]</p>