

## Product datasheet for **RG211472**

### **RAB12 (NM\_001025300) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RAB12 (NM\_001025300) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** RAB12  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG211472 representing NM\_001025300  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGATCCGGGCGCCGCGCTGCAGAGGCGGGCCGGGGCGGGCGGTCTGGGCGCGGGCTCCCCGGCGC  
 TGTCGGGCGGCCAGGGCCGCCGGAGGAAGCAGCCCCCAGGCCGGCCGACTTCAAGTTGCAGGTCATCAT  
 TATCGGCTCCCGCGCGTGGGCAAGACCAGCCTGATGGAGCGCTTACCCGACGACACCTTCTGCGAGGCC  
 TGCAAGTCCACCGTGGGTGTTGACTTCAAATCAAACGTAGAGCTAAGAGGAAAGAAAATTAGATTAC  
 AGATCTGGGACACAGCAGGTCAGGAGAGATTCAACAGCATTACCTCAGCTTATTACAGAAGTCCAAAGGG  
 GATCATATTAGTATATGATATCACTAAGAAGGAGACATTTGATGATTTGCCGAAATGGATGAAGATGATT  
 GATAAGTATGCTTCAGAAGATGCAGAGCTTCTCTTAGTTGGAAATAAGTTGGACTGTGAAACGGACAGAG  
 AAATCACCAGGCAGCAGGGGAAAAGTTTGCACAGCAGATCACTGGGATGCGGTTCTGTGAAGCAAGTGC  
 CAAGGATAACTTCAATGTGGACGAGATATTTTGAACCTGTGCGATGACATTCTGAAAAAGATGCCTCTG  
 GATATTTAAGGAATGAGTTGTCCAATAGTATCCTGTCGTTACAACCAGAGCCTGAGATACCGCCAGAAC  
 TGCTCCACCAAGACCACATGTCCGATGCTGT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG211472 representing NM\_001025300  
 Red=Cloning site Green=Tags(s)

MDPGAALQRRAGGGGLGAGSPALSGGQRRRKQPPRPADFKLQVIIIGSRGVGKTSLMERFTDDTFCEA  
 CKSTVGVDFKIKTVELRGKKIRLQIWDTAGQERFNSITSAYYRSKGIILVYDITKKETFDDLKWMKMI  
 DKYASEDAELLLVGNKLDCEITRQQGEKFAQQITGMRFCESAKDNFNVDEIFLKL VDDILKKMPL  
 DILRNELSNSILSLQPEPEIPPELPPRPHVRCC

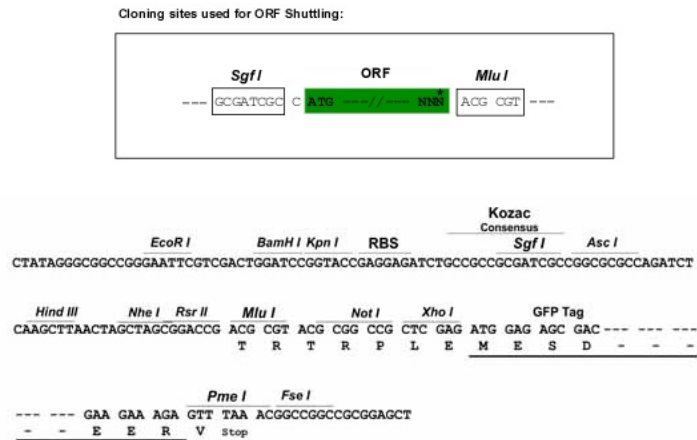
**TRTRPLE** - GFP Tag - V



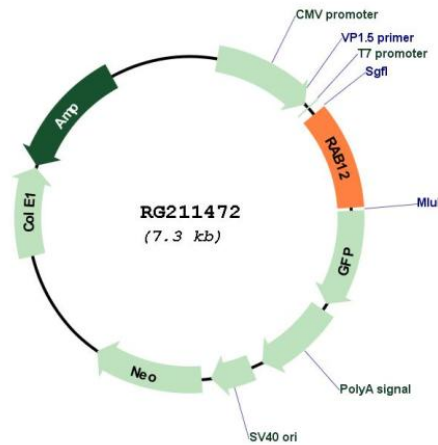
[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001025300

ORF Size: 732 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>NM_001025300.2</u> , <u>NP_001020471.2</u>
<b>RefSeq Size:</b>	2138 bp
<b>RefSeq ORF:</b>	735 bp
<b>Locus ID:</b>	201475
<b>UniProt ID:</b>	<u>Q6IQ22</u>
<b>Cytogenetics:</b>	18p11.22
<b>Gene Summary:</b>	The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes. Rabs cycle between an inactive GDP-bound form and an active GTP-bound form that is able to recruit to membranes different set of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion. That Rab may play a role in protein transport from recycling endosomes to lysosomes regulating, for instance, the degradation of the transferrin receptor. Involved in autophagy (By similarity).[UniProtKB/Swiss-Prot Function]