

## Product datasheet for **RG209159**

### **RAB43 (NM\_198490) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RAB43 (NM_198490) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RAB43
Synonyms:	RAB11B; RAB41
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209159 representing NM_198490 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGGGCCGGGCCAGGCCCGGGGACCCGGACGAGCAGTACGATTCCTGTTCAGCTGGTGTGCTGG  
TGGGCGACGCAAGCGTGGGCAAGACGTGCGTGGTGCAGCGCTTCAAGACCGGCGCCTTCTCGAGCGCCA  
GGGAAGCACCATCGGCGTCGACTTACCATGAAGACGCTGGAGATCCAGGGCAAGCGGTCAAGCTGCAG  
ATCTGGGACACGGCCGGCCAGGAGCGGTCCGCACCATCACCCAGAGCTACTACCGCAGTGCCAATGGGG  
CCATCCTTGCCTACGACATCACCAAGAGGAGCTCCTTCTGTGCGGTGCCTCACTGGATTGAGGATGTGAG  
GAAGTATGCGGGCTCCAACATTGTGCAGCTGTGATCGGGAACAAGTACAGACCTCAGCGAGCTTCGGGAG  
GTCTCCTTGGCTGAGGCACAGAGCCTGGCTGAGCACTATGACATCCTGTGTGCCATTGAGACGTCTGCCA  
AGGACTCGAGCAACGTGGAGGAGGCCTTCTGAGGGTGGCCACGGAGCTCATCATGCGGCACGGGGGCC  
CTTGTTACAGCGAGAAGAGCCCCGACCACATCCAGCTGAACAGCAAGGACATCGGAGAAGGCTGGGGCTGC  
GGGTGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG209159 representing NM\_198490  
 Red=Cloning site Green=Tags(s)

MAGPGPGPGDPDEQYDFLFKLVLVGDASVGKTCVVQRFKTGAFSERQGSTIGVDFTMKTLEIQGKRVKLQ  
 IWDTAGQERFRTITQSYRSANGAILAYDITKRSSFSLVPHWIEDVRKYAGSNIVQLLIGNKSDLSELRE  
 VSLAEAQSLAEHYDILCAIETSAKDSSNVEEAFLRVATELIMRHGGPLFSEKSPDHIQLNSKDIGEGWGC  
 GC

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_198490

**ORF Size:** 636 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_198490.3](#)

**RefSeq Size:** 4447 bp

**RefSeq ORF:** 639 bp

**Locus ID:** 339122

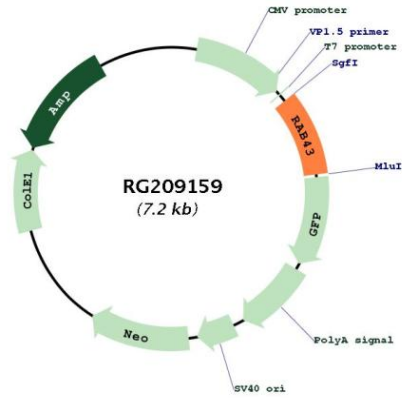
**UniProt ID:** [Q86YS6](#)

**Cytogenetics:** 3q21.3

**Protein Families:** Druggable Genome

**Gene Summary:** 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. The low intrinsic GTPase activity of RAB43 is activated by USP6NL. Involved in retrograde transport from the endocytic pathway to the Golgi apparatus. Involved in the transport of Shiga toxin from early and recycling endosomes to the trans-Golgi network. Required for the structural integrity of the Golgi complex. Plays a role in the maturation of phagosomes that engulf pathogens, such as S.aureus and M.tuberculosis. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG209159