

Product datasheet for RG210510

RAB21 (NM 014999) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: RAB21 (NM 014999) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: RAB21

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG210510 representing NM_014999

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

GAACCTCAAGCCCAGACCAGTGGTGGAGGGTGCTGTTCTTCTGGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG210510 representing NM_014999

Red=Cloning site Green=Tags(s)

MAAAGGGGGGAAAAGRAYSFKVVLLGEGCVGKTSLVLRYCENKFNDKHITTLQASFLTKKLNIGGKRVNL AIWDTAGQERFHALGPIYYRDSNGAILVYDITDEDSFQKVKNWVKELRKMLGNEICLCIVGNKIDLEKER HVSIQEAESYAESVGAKHYHTSAKQNKGIEELFLDLCKRMIETAQVDERAKGNGSSQPGTARRGVQIIDD

EPQAQTSGGGCCSSG

TRTRPLE - GFP Tag - V



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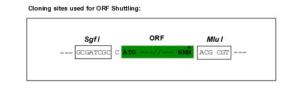
CN: techsupport@origene.cn

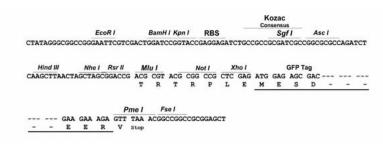


Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





ACCN: NM_014999

ORF Size: 675 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: <u>NM 014999.4</u>

 RefSeq Size:
 2630 bp

 RefSeq ORF:
 678 bp

 Locus ID:
 23011

 UniProt ID:
 Q9UL25



Cytogenetics: 12q21.1

Domains: ras, RAN, RAS, RHO, RAB

Protein Families: Druggable Genome

Gene Summary: This gene belongs to the Rab family of monomeric GTPases, which are involved in the control

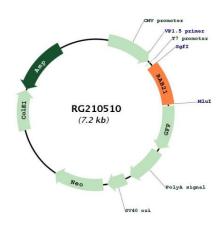
of cellular membrane traffic. The encoded protein plays a role in the targeted trafficking of integrins via its association with integrin alpha tails. As a consequence, the encoded protein is involved in the regulation of cell adhesion and migration. Expression of this gene is associated

with a poor prognosis for glioma patients. This gene is downregulated by the tumor

suppressor miR-200b, and miRNA-200b is itself downregulated in glioma tissues. [provided by

RefSeq, Nov 2015]

Product images:



Circular map for RG210510