

## **Product datasheet for RG231805**

# RAP1B (NM 001251917) Human Tagged ORF Clone

### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** RAP1B (NM\_001251917) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: RAP1B

**Synonyms:** K-REV; RAL1B

Mammalian Cell Neomycin

Selection:

**Vector:** pCMV6-AC-GFP (PS100010)

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

ORF Nucleotide >RG231805 representing NM\_001251917
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

**CTGCTT** 

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG231805 representing NM\_001251917

Red=Cloning site Green=Tags(s)

MREYKLVVLGSGGVGKSALEQFTAMRDLYMKNGQGFALVYSITAQSTFNDLQDLREQILRVKDTDDVPMILVGNKCDLEDERVVGKEQGQNLARQWNNCAFLESSAKSKINVNEIFYDLVRQINRKTPVPGKARKKSSCQ

LL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



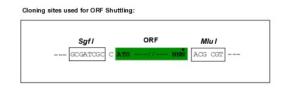
**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

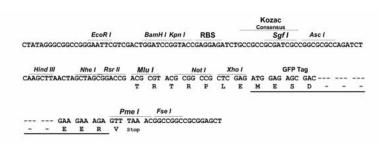
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

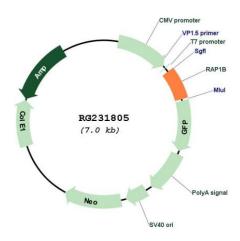


#### **Cloning Scheme:**





#### Plasmid Map:



**ACCN:** NM 001251917

ORF Size: 426 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.

#### **RAP1B (NM\_001251917) Human Tagged ORF Clone - RG231805**

**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 001251917.2</u>

RefSeq Size: 2046 bp
RefSeq ORF: 429 bp
Locus ID: 5908
UniProt ID: P61224
Cytogenetics: 12q15

**Protein Families:** Druggable Genome

**Protein Pathways:** Chemokine signaling pathway, Focal adhesion, Leukocyte transendothelial migration, Long-

term potentiation, MAPK signaling pathway, Neurotrophin signaling pathway, Renal cell

carcinoma

**Gene Summary:** This gene encodes a member of the RAS-like small GTP-binding protein superfamily.

Members of this family regulate multiple cellular processes including cell adhesion and growth and differentiation. This protein localizes to cellular membranes and has been shown to regulate integrin-mediated cell signaling. This protein also plays a role in regulating

outside-in signaling in platelets. Alternate splicing results in multiple transcript variants.
Pseudogenes of this gene are found on chromosomes 3, 5, 6 and 9. [provided by RefSeq, Oct

2011]