

## 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 Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG231805 representing NM\_001251917  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATCGGTGAGTATAAGCTAGTCGTTCTTGGCTCAGGAGGCGTTGGAAAGTCTGCTTTGGAGCAATTTACAG  
CAATGAGGGATTATACATGAAAAATGGACAAGGATTTGCATTAGTTTATTCCATCACAGCACAGTCCAC  
ATTTAACGATTTACAAGACCTGAGAGAACAGATTCTTCGAGTTAAAGACACTGATGATGTTCCAATGATT  
CTTGTTGGTAATAAGTGTGACTTGAAGATGAAAGAGTTGTAGGGAAGGAACAAGGTCAAATCTAGCAA  
GACAATGGAACAACCTGTGATTCTTAGAATCTTCTGCAAAATCAAAAATAAATGTTAATGAGATCTTTTA  
TGACCTAGTGCAGCAAAATTAACAGAAAACTCCAGTGCCTGGGAAGGCTCGCAAAAAGTCATCATGTCCAG  
CTGCTT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG231805 representing NM\_001251917  
**Red=Cloning site Green=Tags(s)**  
MREYKLVVLGSGGVGKSALEQFTAMRDLYMKNQGQFALVYSITAQSTFNLDLREQILRVKDTDDVPMI  
LVGNKCDLEDERVVGKEQQNLARQWNNCAFLESSAKSKINVNEIFYDLVRQINRKTPVPGKARKKSSCQ  
LL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI





<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>	<a href="#">NM_001251917.2</a>
<b>RefSeq Size:</b>	2046 bp
<b>RefSeq ORF:</b>	429 bp
<b>Locus ID:</b>	5908
<b>UniProt ID:</b>	<a href="#">P61224</a>
<b>Cytogenetics:</b>	12q15
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Chemokine signaling pathway, Focal adhesion, Leukocyte transendothelial migration, Long-term potentiation, MAPK signaling pathway, Neurotrophin signaling pathway, Renal cell carcinoma
<b>Gene Summary:</b>	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]