

## Product datasheet for **RG204651**

### **RAB8B (NM\_016530) Human Tagged ORF Clone**

#### Product data:

Product Type: Expression Plasmids  
 Product Name: RAB8B (NM\_016530) Human Tagged ORF Clone  
 Tag: TurboGFP  
 Symbol: RAB8B  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-AC-GFP (PS100010)  
 E. coli Selection: Ampicillin (100 ug/mL)  
 ORF Nucleotide Sequence: >RG204651 representing NM\_016530  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGAAGACGTACGATTATCTCTTCAAGCTCCTGCTGATCGGCGACTCGGGGTAGGCAAGACCTGCC  
 TCCTGTTCCGCTTCTCAGAGGACGCCTTCAACACCACCTTCATCTCCACCATCGGAATTGATTTTAAAT  
 TAGAACGATAGAAGTATGAAAGAAAATTAAGCTTCAGATATGGGACACAGCGGTCAGGAAAGATTC  
 CGAACATCACGACAGCGTACTACAGAGGACCATGGGCATTATGCTGGTCTATGACATCACAAATGAAA  
 AATCCTTTGACAATATTAATAATTGGATCAGAAACATTGAAGAGCATGCCTCTTCCGATGTCGAAAGAAT  
 GATCCTGGGTAACAAATGTGATATGAATGACAAAAGACAAGTGTCAAAAGAAAGAGGGGAGAAGCTAGCA  
 ATTGACTATGGGATTAATTTCTGGAGACAAGCGCAAAATCCAGTGCAAATGTAGAAGAGGCATTTTTTA  
 CACTTGCACGAGATATAATGACAAAACCAACAGAAAAATGAATGACAGCAATTCAGCAGGAGCAGGTGG  
 ACCAGTAAAAATAACAGAAAACCGATCAAAGAAGACCAGTTTCTTTCGTTGCTCGCTACTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG204651 representing NM\_016530  
 Red=Cloning site Green=Tags(s)

MAKTYDYLFKLLLIIGDSGVGKTCLLFRFSEDAFNNTTFFISTIGIDFKIRTIELDGKKIKLQIWDTAGQERF  
 RTITTAYYRGAMGIMLVYDITNEKSFDNKWNWIRNIEEHASSDVERMILGNKCDMNDKRVSKERGEKLA  
 IDYGIKFLKSSANVEEAFFTLARDIMTKLNRKMNSNSAGAGGPVKITENRSKTSFFRCSLL

**TRTRPLE** - GFP Tag - V

Restriction Sites: SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_016530

**ORF Size:** 621 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:** [NM\\_016530.3](#)

**RefSeq Size:** 4877 bp

**RefSeq ORF:** 624 bp

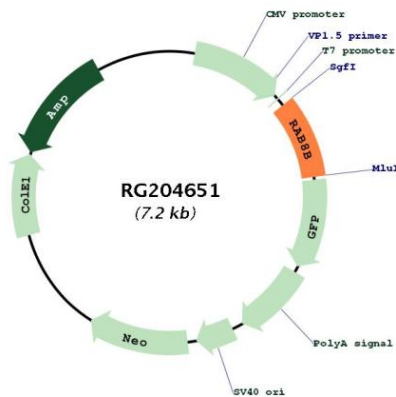
**Locus ID:** 51762

**UniProt ID:** [Q92930](#)

**Cytogenetics:** 15q22.2  
**Domains:** ras, RAN, RAS, RHO, RAB, ARF  
**Protein Families:** Druggable Genome

**Gene Summary:** RAB proteins, like RAB8B, are low molecular mass monomeric GTPases that localize on the cytoplasmic surfaces of distinct membrane-bound organelles. RAB proteins function in intracellular vesicle transport by aiding in the docking and/or fusion of vesicles with their target membranes (summary by Chen et al., 1997 [PubMed 9030196]).[supplied by OMIM, Nov 2010]

**Product images:**



Circular map for RG204651