

## Product datasheet for **RG208302**

### **RAB4B (NM\_016154) Human Tagged ORF Clone**

#### Product data:

Product Type: Expression Plasmids  
 Product Name: RAB4B (NM\_016154) Human Tagged ORF Clone  
 Tag: TurboGFP  
 Symbol: RAB4B  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-AC-GFP (PS100010)  
 E. coli Selection: Ampicillin (100 ug/mL)  
 ORF Nucleotide Sequence: >RG208302 representing NM\_016154  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTGAGACCTACGACTTCCTCTTCAAATTCCTGGTGATTGGCAGTGCAGGAAGTGGCAAATCATGTC  
 TCCTTCATCAGTTCATTGAGAATAAGTTCAAACAGGACTCCAACACACAATCGGCGTGGAGTTGGATC  
 CCGGGTGGTCAACGTGGGTGGGAAGACTGTGAAGCTACAGATTTGGGACACGGCTGGCCAGGAGCGGTTT  
 CGGTCACTGACGCGGAGTTATTACCGAGGGCGGCTGGAGCCCTGCTGGTGTACGACATCACCAGCCGGG  
 AGACATACAACACTACTGGCTGCCTGGCTGACGGATGCCCGCACCTGGCCAGCCCAACATCGTGGTGCAT  
 CCTCTGTGGCAACAAGAAGGACCTGGACCCTGAGCGGGAGGTCACTTTCCTGGAGGCTCCCGCTTTGCC  
 CAGGAGAATGAGCTGATGTTCTGGAGACCAGCGCTCTCACAGGCGAGAACGTGGAGGAGGCGTTCTCA  
 AGTGTGCCCGCACTATCCTCAACAAGATTGACTCAGGCGAGCTAGACCCGGAGAGGATGGGCTCTGGCAT  
 TCAGTACGGGGATGCGTCCCTCCGCCAGCTTCGGCAGCCTCGGAGTGCCAGGCCGTGGCCCTCAGCCG  
 TGTGGCTGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG208302 representing NM\_016154  
 Red=Cloning site Green=Tags(s)

MAETYDFLFKFLVIGSAGTGKSCLLHQFIENKFKQDSNHTIGVEFGSRVNVVGGKTVKQLIWDTAGQERF  
 RSVTRSYRGAAGALLVYDITSRETYNSLAAWLTDARTLASPNIIVVILCGNKKDLDPEREVTFLEASRFA  
 QENELMFLETSALTGENVEEAFKLCARTILNKIDSGELDPERMGSIGIQYGDASLRQLRQPRSAQAVAPQP  
 CGC

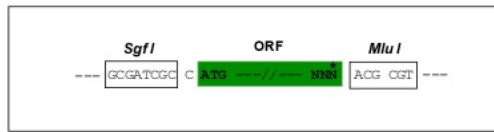
**TRTRPLE** - GFP Tag - V



Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM\_016154

ORF Size: 639 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\\_016154.5](#)

RefSeq Size: 1160 bp

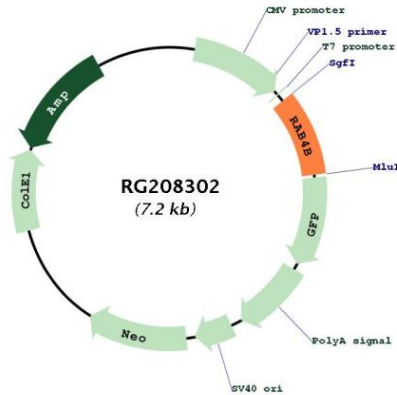
RefSeq ORF: 642 bp

Locus ID: 53916

UniProt ID: [P61018](#)

**Cytogenetics:** 19q13.2  
**Domains:** ras, RAN, RAS, RHO, RAB  
**Protein Families:** Druggable Genome  
**Gene Summary:** RAB proteins, such as RAB4B, are members of the RAS superfamily of small GTPases that are involved in vesicular trafficking (He et al., 2002 [PubMed 12450215]).[supplied by OMIM, Aug 2009]

**Product images:**



Circular map for RG208302