

## Product datasheet for **MG202099**

### Rab30 (NM\_029494) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rab30 (NM\_029494) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Rab30  
**Synonyms:** 5033421K01Rik; AI323892; Rsb30  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG202099 representing NM\_029494  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGTATGGAAGATTATGATTTCTGTTCAAATTTGTTTTAATTGGCAACGCTGGAGTGGGAAAGACGT  
 GCCTAGTCCGAAGATTCAGGGTCTTTTCCCCCAGGTCAAGGAGCCACAATTGGAGTTGATTTTAT  
 GATTAAGACAGTGGAGATTAATGGTAAAAAGTGAAGTTACAGATCTGGGACACCGCAGGTCAAGAGAGA  
 TTTGCTCCATCACTCAAAGTTACTATCGAAGCGCAATGCCTTGATCCTTACCTATGACATCACCTGTG  
 AGGAATCCTTCCGCTGCCTTCTGAGTGGTTGCGGGAGATAGAACAGTATGCTAGCAATAAAGTCATCAC  
 TGTGTTAGTAGGCAACAAGATTGACCTGGCTGAAAGGCGAGAGGTCTCCAGCAGAGAGCAGAAGAGTTC  
 TCAGAGGCTCAGGACATGTATTACCTGGAGACTTCAGCCAAGGAATCCGACAATGTGGAGAACTCTTCC  
 TTGACTTAGCATGCCGACTCATCAGCGAAGCAAGACAGAACACACTGGTGAACAATGTATCGTCACCCCTT  
 ACCCGGAGAGGGGAAAAGCATCAGCTATTTGACTTGTGTAATTTCAAC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >MG202099 representing NM\_029494  
 Red=Cloning site Green=Tags(s)

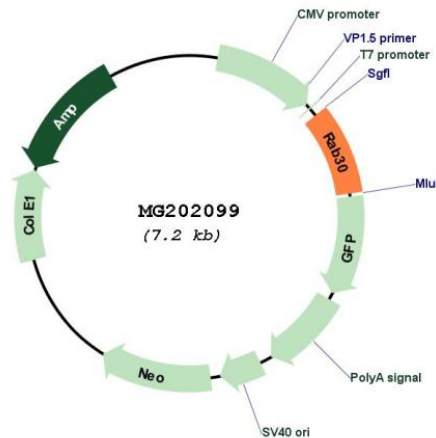
MSMEDYDFLFKIVLIGNAGVGKTCVRRFTQGLFPPGQATIGVDFMIKTVEINGEKVKLQIWDTAGQER  
 FRSITQSYRRSANALILTYDITCEESFRCLPEWLREIEQYASNKVITVLVGNKIDLAERREVSQQRAEFF  
 SEAQDMYYLETSAKESDNVEKFLDLACRLISEARQNTLVNNVSSPLPGEKKSISYLTCCNFN

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_029494

**ORF Size:** 609 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\\_029494.2](#), [NP\\_083770.2](#)

**RefSeq Size:** 2007 bp

**RefSeq ORF:** 612 bp

**Locus ID:** 75985

**UniProt ID:** [Q923S9](#)

**Cytogenetics:** 7 E1

**Gene Summary:** The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes. Rabs cycle between an inactive GDP-bound form and an active GTP-bound form that is able to recruit to membranes different set of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion (By similarity). Required for maintaining the structural integrity of the Golgi apparatus, possibly by mediating interactions with cytoplasmic scaffolding proteins (By similarity).[UniProtKB/Swiss-Prot Function]