

## Product datasheet for **MG202182**

### Ralb (NM\_022327) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ralb (NM\_022327) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Ralb  
**Synonyms:** 5730472O18Rik  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG202182 representing NM\_022327  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCTGCCAACAAAGGGCAAGAGCCAGGGCTCCCTGGTACTTCACAAGGTCATCATGGTTGGCAGTGGAG  
 GGGTCGGCAAATCAGCCCTGACGCTTCAGTTTCATGTATGATGAGTTTGTAGAAGACTATGAGCCACCAA  
 AGCTGACAGTTACAGAAAGAAGGTGTTCTCGACGGAGAAGAGGTCAGATAGACATCCTGGACCCGCT  
 GGCCAGGAGGACTATGCGCCATCCGTGACAACACTCTCCGAAGCGGAGAAGGCTTCTGCTGGTGTCT  
 CCATCACAGAGCACGAGTCTTTACAGCCACAGCCGAGTTCAGGGAACAGATTCTCCGAGTCAAGTCAGA  
 GGAGGACAAGATCCCCTGCTGGTTCGTTGGCAACAAGTCCGACCTGGAGGAGCGGAGGCAGTGCCTGTG  
 GACGAGGCCCGAGGCAAAGCGGAGGAGTGGGGTGTGACGTACGTGGAGACATCTGCAAAGACCCGCGCCA  
 ATGTGGACAAGGTATTCTTTGATCTGATGAGAGAAATCCGGGCAAAAAGATGTCAGAAAACAAGGACAA  
 GAACGGCAGGAAAAGCAGCAAGAGCAAGAAAAGTTTCAAAGAGCGATGCTGCTTGTCTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG202182 representing NM\_022327  
 Red=Cloning site Green=Tags(s)

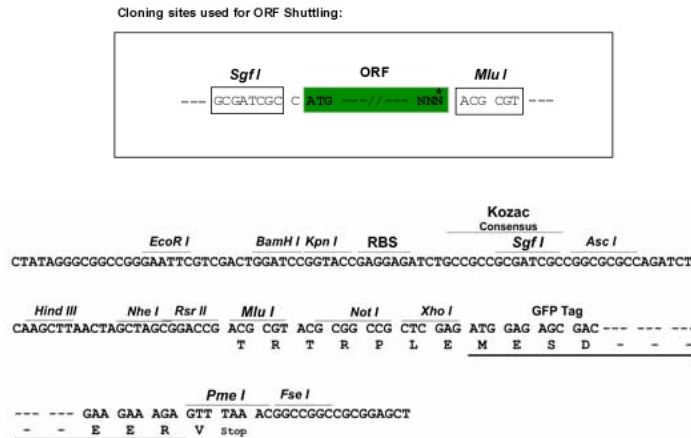
MAANKGKSQGSLLVHKVIMVSGGVGKSALTLQFMYDEFVEDYEPTKADSYRKKVLDGEEVQIDILDTA  
 GQEDYAAIRDNYFRSGEGFLLVFSITEHESFTATAEFREQILRVKSEEDIPLLVVGNKSDLERRQVPV  
 DEARGKAEWGVQYVETSAKTRANVDKVFDFLMREIRAKKMSENKDKNGRKSSEKSKSFKERCCLL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM\_022327

ORF Size: 618 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\\_022327.5](#)

**RefSeq Size:** 2117 bp

**RefSeq ORF:** 621 bp

**Locus ID:** 64143

**UniProt ID:** [Q9JIW9](#)

**Cytogenetics:** 1 E2.3

**Gene Summary:** Multifunctional GTPase involved in a variety of cellular processes including gene expression, cell migration, cell proliferation, oncogenic transformation and membrane trafficking. Accomplishes its multiple functions by interacting with distinct downstream effectors. Acts as a GTP sensor for GTP-dependent exocytosis of dense core vesicles (By similarity). Required both to stabilize the assembly of the exocyst complex and to localize functional exocyst complexes to the leading edge of migrating cells (By similarity). Required for suppression of apoptosis (By similarity). In late stages of cytokinesis, upon completion of the bridge formation between dividing cells, mediates exocyst recruitment to the midbody to drive abscission (By similarity).[UniProtKB/Swiss-Prot Function]