

## Product datasheet for **MG220005**

### Arhgap31 (NM\_020260) Mouse Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Arhgap31 (NM_020260) Mouse Tagged ORF Clone                                 |
| Tag:                      | TurboGFP  |
| Symbol:                   | Arhgap31  |
| Synonyms:                 | 5830477L08Rik; AU041750; Cdgap; D330026I07Rik                               |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)   |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| ORF Nucleotide Sequence:  | >MG220005 representing NM_020260<br>Red=Cloning site Blue=ORF Green=Tags(s) |

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GCC**CGATCGCC**

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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG220005 representing NM\_020260  
 Red=Cloning site Green=Tags(s)

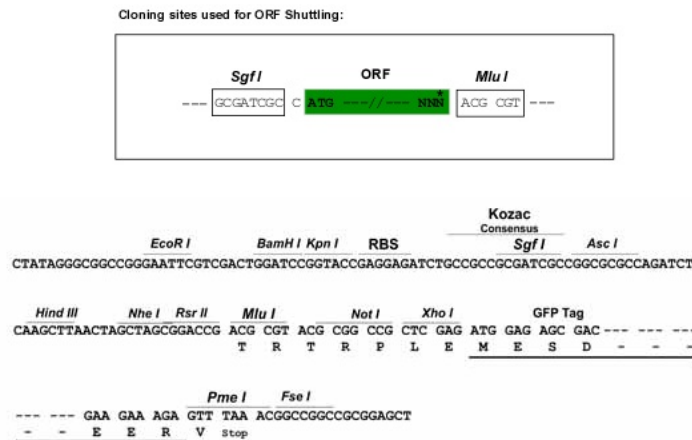
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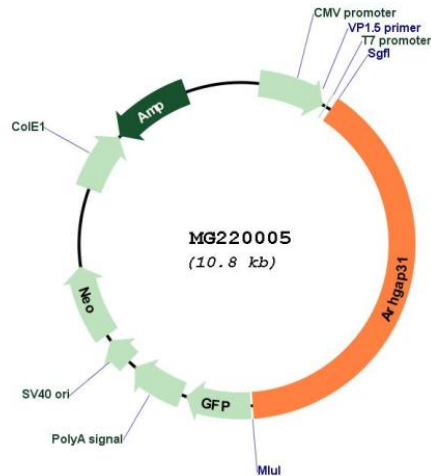
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```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


|                        |  |
|------------------------|--|
| <b>ACCN:</b>           | NM_020260  |
| <b>ORF Size:</b>       | 4275 bp  |
| <b>OTI Disclaimer:</b> | 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. <a href="#">More info</a> |
| <b>OTI Annotation:</b> | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.   |
| <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).   |

**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\\_020260.2](#), [NP\\_064656.2](#)

**RefSeq Size:** 7722 bp

**RefSeq ORF:** 4278 bp

**Locus ID:** 12549

**UniProt ID:** [A6X8Z5](#)

**Cytogenetics:** 16 B4

**Gene Summary:** Functions as a GTPase-activating protein (GAP) for RAC1 and CDC42. Required for cell spreading, polarized lamellipodia formation and cell migration.[UniProtKB/Swiss-Prot Function]