

## Product datasheet for **MG221689**

### Agap2 (NM\_001033263) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Agap2 (NM\_001033263) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Agap2  
**Synonyms:** AGAP-2; Centg; Centg1; cnt-g1; mKIAA0167; PIKE  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG221689 representing NM\_001033263  
 Red=Cloning site Blue=ORF Green=Tags(s)

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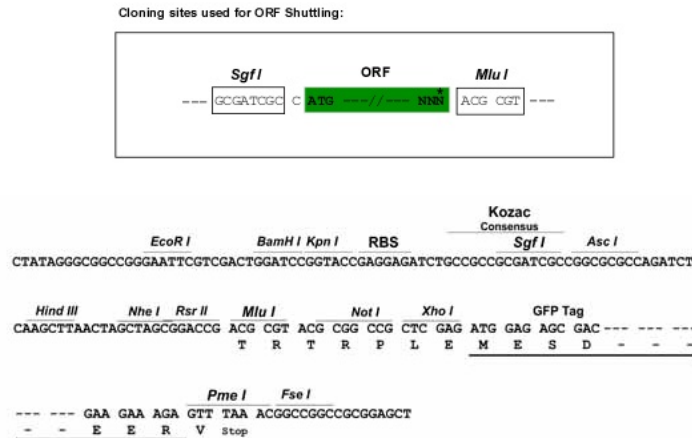
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**Protein Sequence:** >MG221689 representing NM\_001033263  
 Red=Cloning site Green=Tags(s)

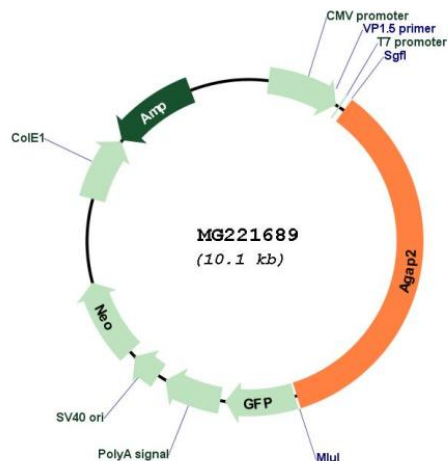
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```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI  
**Cloning Scheme:**



## Plasmid Map:



ACCN: NM\_001033263

ORF Size: 3558 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\\_001033263.5](#), [NP\\_001028435.1](#)

RefSeq Size: 5633 bp

RefSeq ORF: 3561 bp

Locus ID: 216439

UniProt ID: [Q3UHD9](#)

Cytogenetics: 10 D3

**Gene Summary:**

The protein encoded by this gene is a member of the centaurin GTPase family. This gene product regulates the activity of multiple kinases, including PI3K. Reduced expression of this gene results in multiple defects, including neural deficiencies, while increased expression of this gene has been observed in some tumors. Alternative splicing results in multiple protein isoforms. [provided by RefSeq, Jul 2014]