

## Product datasheet for **RG217203**

### RhoGAP (ARHGAP5) (NM\_001030055) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RhoGAP (ARHGAP5) (NM_001030055) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ARHGAP5
Synonyms:	GFI2; p190-B; p190BRhoGAP; RhoGAP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG217203 representing NM_001030055 Red=Cloning site Blue=ORF Green=Tags(s)

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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG217203 representing NM\_001030055  
 Red=Cloning site Green=Tags(s)

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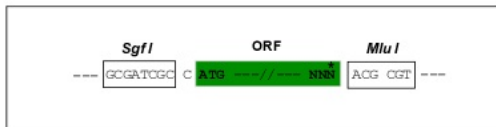
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TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



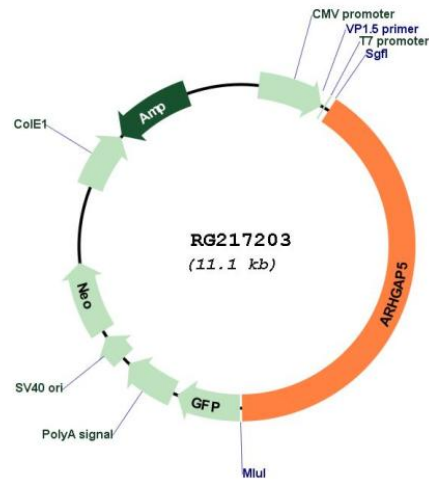
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                                     Kozac
                                     Consensus
                                     SgfI   AscI
EcoRI   BamHI KpnI   RBS   ATG GAG AGC GAC
CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCCGCCAGATCT

HindIII  NheI  RsrII  MluI   NotI   XhoI   GFP Tag
CAAGCTTAAGTACTAGCTAGCGGACCG  ACG CGT  ACG CGG  CCG  CTC GAG  ATG GAG AGC GAC ---
                                     T R T R P L E M E S D - - -

PmeI   FseI
--- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT
- - E E R V Stop
  
```

## Plasmid Map:



ACCN: NM\_001030055

ORF Size: 4506 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001030055.2</a>
<b>RefSeq Size:</b>	9604 bp
<b>RefSeq ORF:</b>	4509 bp
<b>Locus ID:</b>	394
<b>UniProt ID:</b>	<a href="#">Q13017</a>
<b>Cytogenetics:</b>	14q12
<b>Protein Pathways:</b>	Focal adhesion, Leukocyte transendothelial migration
<b>Gene Summary:</b>	Rho GTPase activating protein 5 negatively regulates RHO GTPases, a family which may mediate cytoskeleton changes by stimulating the hydrolysis of bound GTP. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]