

## Product datasheet for **RR210518**

### Rgs1 (NM\_019336) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rgs1 (NM\_019336) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Rgs1  
**Synonyms:** MGC112645  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR210518 representing NM\_019336  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGACATGAAAGCATATCTAAGATCTATGATCCCTCATCTGGAATCTGGGATGAAATCGTCCAAGTCCA  
 AAGACATACTTTTCGGCTGAGGAAGTAATGCAGTGGTCTCAGTCTCTGGAAAACTCCTTGCCAACCGAT  
 GGGTCAAATGTCTTTGGAAATTCCTAAAGTCTGAATTCAGTGAAGAGAACATTGAATTCTGGTTGGCT  
 TGTGAAGACTATAAGAAAACAGAGACTGATCTTTTGCATAACAAAAGCAGAGCATATATACAAAGCATTTG  
 TGCACTCAGATGCTGTGAAACAAATCAATATTGACTTTCATACTCGGGAATCGACAGCCAAGAGATCAA  
 AACACCAACTCCCACATGTTTTGATGAAGCACAAAAAGTCATATACGCACCTTATGGAAAAGGATTCTTAT  
 CCCAGGTTCTGAAATCAAATTTTACTTAAATCTTCTAAATGACCTTCAGGCGAATACCTTAAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR210518 representing NM\_019336  
 Red=Cloning site Green=Tags(s)

MDMKAYLRSMIPHLESGMKSSKSKDILSAEEVMQWSQSLEKLLANQMGNVFGKFLKSEFSEENIEFWLA  
 CEDYKKTETDLLHNKAHEIYKAFVHSDAVKQINIDFHTRESTAKKIKTPTPTCFDEAQKVIYALMEKDSY  
 PRFLKSNIYLNLLNLDLQANTLK

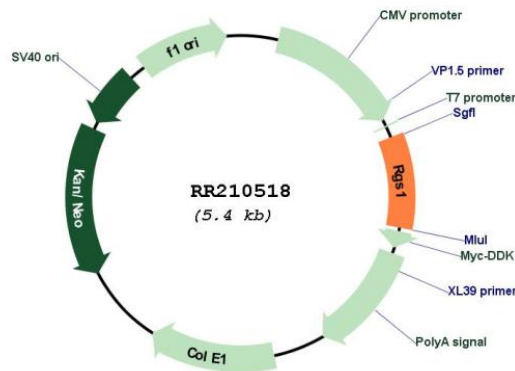
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_019336

**ORF Size:** 486 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.

<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).
<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>	<u><a href="#">NM_019336.1</a></u> , <u><a href="#">NP_062209.1</a></u>
<b>RefSeq Size:</b>	1319 bp
<b>RefSeq ORF:</b>	489 bp
<b>Locus ID:</b>	54289
<b>UniProt ID:</b>	<u><a href="#">P97844</a></u>
<b>Cytogenetics:</b>	13q21
<b>MW:</b>	18.8 kDa
<b>Gene Summary:</b>	human homolog acts as a GTPase activator and inhibits Gq mediated Ca <sup>2+</sup> signaling [RGD, Feb 2006]