

## Product datasheet for **RC236094**

### **RGS20 (NM\_001286674) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RGS20 (NM\_001286674) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** RGS20  
**Synonyms:** g(z)GAP; gz-GAP; RGSZ1; ZGAP1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC236094 representing NM\_001286674  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGAAGGAGACCTCAGGGCTGTTCTGATATCAAGCCCTGCTCCTACTCTGGAAGAAGTCAACGCCTGGG  
CTCAGTCATTTGACAAATTAATGGTCACTCCAGCAGGAAGGAATGCATTCGTAATTCCTCGAACAGA  
ATTCAGTGAGGAAAATATGCTCTTCTGGATGGCCTGTGAGGAAGTAAAAAGGAAGCTAATAAAAAACATT  
ATTGAAGAGAAAGCAAGGATAATCTATGAAGACTACATTTCTATACTTTCTCCTAAGGAGGTGAGCTTAG  
ACTCCCGGTGAGAGAAGTGATCAACAGAAACATGGTGGAGCCATCCCAACACATATTCGATGATGCTCA  
ACTTCAGATTTACACCCTGATGCACAGAGACTCATATCCTCGATTCATGAACTCTGCTGTCTATAAGGAC  
TTGCTTCAGTCCTTATCGGAGAAATCTATTGAAGCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC236094 representing NM\_001286674  
**Red=Cloning site Green=Tags(s)**  
MKETSGLFLISSPAPTLLEEVNAWAQSFDKLMVTPAGRNAFREFLRTEFSEENMLFWMACEELKKEANKNI  
IEEKARIYEDYISILSPKEVSLDSRVREVINRNMVEPSQHIFDDAQLQIYTLMHRDSYPRFMNSAVYKD  
LLQSLSEKSIEA

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

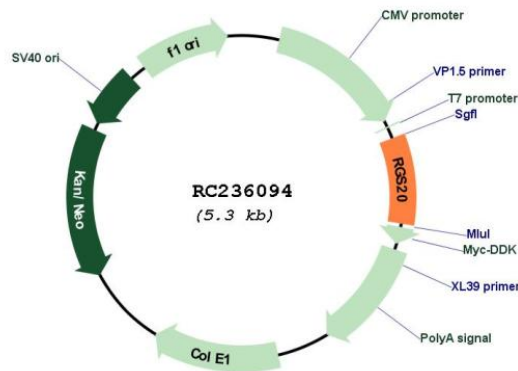
**Restriction Sites:** SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM\_001286674

ORF Size: 456 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>NM_001286674.2</u>
<b>RefSeq Size:</b>	1527 bp
<b>RefSeq ORF:</b>	459 bp
<b>Locus ID:</b>	8601
<b>UniProt ID:</b>	<u>O76081</u>
<b>Cytogenetics:</b>	8q11.23
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	18.2 kDa
<b>Gene Summary:</b>	The protein encoded by this gene belongs to the family of regulator of G protein signaling (RGS) proteins, which are regulatory and structural components of G protein-coupled receptor complexes. RGS proteins inhibit signal transduction by increasing the GTPase activity of G protein alpha subunits, thereby driving them into their inactive GDP-bound forms. This protein selectively binds to G(z)-alpha and G(alpha)-i2 subunits, and regulates their signaling activities. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011]