

Product datasheet for **RC236323**

RGS20 (NM_001286675) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RGS20 (NM_001286675) 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: >RC236323 representing NM_001286675
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGGAGACCTCAGGGCTGTTCTGATCAAGTCTCACTGTTAGAAACCAGGAAGATCAGAGGCCCA
CAATAGCTTCCCACGAAGCTCAGAGCAGATCTTCCAACCTGGGAAGAAAGCCCTGCTCTACTCTGGAAGA
AGTCAACGCCTGGGCTCAGTCATTTGACAAATTAATGGTCACTCCAGCAGGAAGGAATGCATTCCGTGAA
TTCTCCGAACAGAATTCAGTGAGGAAAATATGCTCTTCTGGATGGCCTGTGAGGAAGTAAAAAGGAAG
CTAATAAAAAACATTATTGAAGAGAAAGCAAGGATAATCTATGAAGACTACATTTCTATACTTTCTCTAA
GGAGGTGAGCTTAGACTCCCGGGTGAAGAAAGTATCAACAGAAACATGGTGGAGCCATCCCAACACATA
TTGATGATGCTCAACTTACAGTTTACACCCTGATGCACAGAGACTCATATCCTCGATTCATGAAGCTCTG
CTGTCTATAAGGACTTGCTTCAGTCCTTATCGGAGAAATCTATTGAAGCA

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236323 representing NM_001286675
Red=Cloning site Green=Tags(s)

MKETSGLFLISSLTVRNQEDQRPTIASHELRLADLPTWEESPAPTL EEVNAWAQSFDKLMVTPAGRNAFRE
FLRTEFSEENMLFWMACEELKKEANKNIEEKARIYEDYISILSPKEVSLDSRVREVINRMVPEPSQHI
FDDAQLQIYTLMHRDSYPRFMNSAVYKDLLQSLSEKSIEA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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| 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: | <ol style="list-style-type: none">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_001286675.2 |
| RefSeq Size: | 1611 bp |
| RefSeq ORF: | 543 bp |
| Locus ID: | 8601 |
| UniProt ID: | O76081 |
| Cytogenetics: | 8q11.23 |
| Protein Families: | Druggable Genome |
| MW: | 21.5 kDa |
| Gene Summary: | 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] |