

Product datasheet for **RG236323**

RGS20 (NM_001286675) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RGS20 (NM_001286675) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: RGS20
Synonyms: g(z)GAP; gz-GAP; RGSZ1; ZGAP1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG236323 representing NM_001286675.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAGGAGACCTCAGGGCTGTTCTGATATCAAGTCTCACTGTTAGAAACCAGGAAGATCAGAGGCC
ACAATAGCTTCCCACGAACCTCAGAGCAGATCTTCCAACCTGGGAAGAAAGCCCTGCTCTACTCTGGAA
GAAGTCAACGCCTGGGCTCAGTCATTTGACAAATTAATGGTCACTCCAGCAGGAAGGAATGCATTCCGT
GAATTCCTCCGAACAGAATTCAGTGAGGAAAATATGCTCTTCTGGATGGCCTGTGAGGAAGTAAAAAG
GAAGCTAATAAAAAACATTATTGAAGAGAAAGCAAGGATAATCTATGAAGACTACATTTCTATACTTTCT
CCTAAGGAGGTGAGCTTAGACTCCCGGTGAGAGAAGTGATCAACAGAAACATGGTGGAGCCATCCCAA
CACATATTCGATGATGCTCAACTTCAGATTTACACCCTGATGCACAGAGACTCATATCCTCGATTATG
AACTCTGCTGTCTATAAGGACTTCTTTCAGTCCTATCGGAGAAAATCTATTGAAGCA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236323
Blue=ORF Red=Cloning site Green=Tag(s)

```
MKETSGLFLISSLTVRNQEDQRPTIASHELRADLPTWEESPAPTLLEEVDNAWAQSFDKLMVTPAGRNAFR
EFLRTEFSEENMLFWMACEELKKEANKNIIIEKARIYEDYISILSPKEVSLDSRVREVINRNMVPEPQ
HIFDDAQLQIYITLMHRDSYPRFMNSAVYKDLLQSLSEKSIEA
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLVHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: Sgfl-MluI

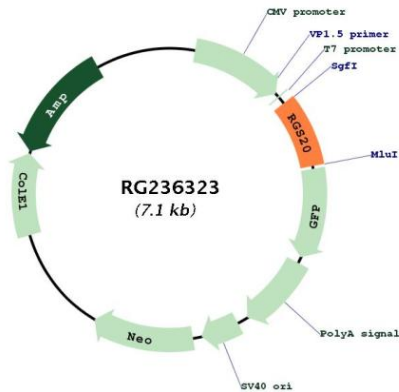


Cloning Scheme:


- ACCN: NM_001286675
- ORF Size: 540 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).
- 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]

Product images:


Circular map for RG236323