

Product datasheet for **RC237079**

RGS20 (NM_001286673) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RGS20 (NM_001286673) 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: >RC237079 representing NM_001286673
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCCCCAGCTTTCCAAGATAACCAAGAGTGCCTCCAGAAACATTTCTCCAGGCCGTCTATATGGACAC
AGTTTCTGCCCTGTTTCAGGGCTCAGAGATATAATACAGACATTCACCAAATCACAGAAAATGAAGGAGA
CCTCAGGGCTGTTCTGTATCAAGCAGATGGGATCAGAGCGGATGGAGATGCGGAAGCGGCAGATGCC
GCCGCCACAGGACACACAGGCGCCGCCAGGCCAGCCGGAGCGGGGAGTCGCGGGTCCAACGCATGCT
GCTTCTGCTGGTCTGCTGTTGTAGCTGCTCGTGTCTCACTGTTAGAAACCAGGAAGATCAGAGGCCAC
AATAGCTTCCCACGAACTCAGAGCAGATCTTCCAACTGGGAAGAAAGCCCTGCTCTACTCTGGAAGAA
GTCAACGCCTGGGCTCAGTCATTTGACAAATTAATGGTCACTCCAGCAGGAAGGAATGCATTCCGTGAAT
TCCTCCGAACAGAATTCAGTGAGGAAAATATGCTCTTCTGGATGGCCTGTGAGGAACTGAAAAAGGAAGC
TAATAAAAACATTATTGAAGAGAAAGCAAGGATAATCTATGAAGACTACATTTCTATACTTTCTCCTAAG
GAGGTGAGCTTAGACTCCCGGTGAGAGAAGTGATCAACAGAAACATGGTGGACCATCCCAACACATAT
TCGATGATGCTCAACTTCAGATTTACACCCTGATGCACAGAGACTCATATCCTCGATTCATGAACTCTGC
TGCTATAAAGACTTGCTTCAGTCCTTATCGGAGAAATCTATTGAAGCA

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ACAAGGATGACGACGATAAGGTTTAA



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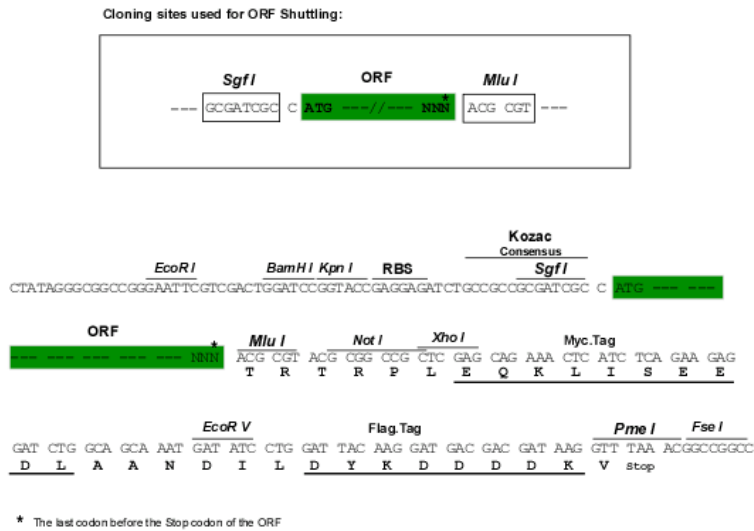
Protein Sequence: >RC237079 representing NM_001286673
Red=Cloning site Green=Tags(s)

MPQLSQDNQECLQKHF SRPSIWTF LPLFRAQRYNTDIHQITENEGDLRAVPDIKQMGSERMEMRKRQMP
 AAQDTPGAAPGQPGAGSRGSNACCFWCCCCSCSCLTVRNQEDQRPTIASHELADLPTWEESPAPTL EE
 VNAWAQSFDKLMVTPAGRNAFREFLRTEFSEENMLFWMACEELKKEANKNIIEEKARIIEYEDYISILSPK
 EVSLDSRVREVINRNMVEPSQHIFDDAQLQIYITLMHRDSYPRFMNSAVYKDLLQSLSEKSIEA

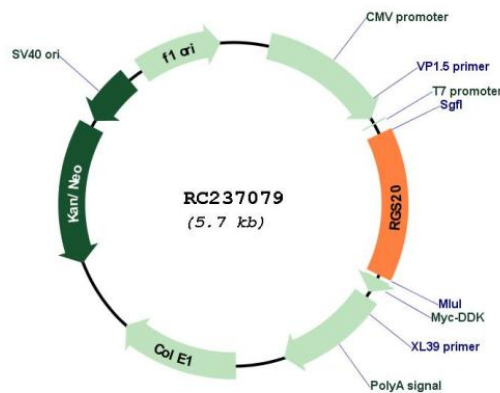
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001286673

ORF Size: 819 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).
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_001286673.2
RefSeq Size:	1760 bp
RefSeq ORF:	822 bp
Locus ID:	8601
UniProt ID:	O76081
Cytogenetics:	8q11.23
Protein Families:	Druggable Genome
MW:	31.9 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]