

Product datasheet for **RG237079**

RGS20 (NM_001286673) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RGS20 (NM_001286673) 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:	>RG237079 representing NM_001286673. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCCCAGCTTTCCAAGATAACCAAGAGTGCCTCCAGAAACATTTCTCCAGGCCGTCTATATGGACA
CAGTTTCTGCCCTGTTCCAGGGCTCAGAGATATAATACAGACATTCACCAAATCACAGAAAATGAAGGA
GACCTCAGGGCTGTTCTGATATCAAGCAGATGGGATCAGAGCGGATGGAGATGCGGAAGCGGCAGATG
CCCGCCGCCAGGACACACCAGGCGCCGCCAGGCCAGCCGGAGCGGGGAGTCGCGGGTCCAACGCA
TGCTGCTTCTGCTGGTGTGCTGTTGTAGCTGCTCGTGTCTCACTGTTAGAAACCAGGAAGATCAGAGG
CCCACAATAGCTTCCCACGAACAGAGCAGATCTTCAAACCTGGGAAGAAAGCCCTGCTCCTACTCTG
GAAGAAGTCAACGCTGGGCTCAGTCATTTGACAAATTAATGGTCACTCCAGCAGGAAGGAATGCATTC
CGTGAATTCCTCCGAACAGAATTCAGTGAGGAAAATATGCTCTTCTGGATGGCCTGTGAGAACTGAAA
AAGGAAGCTAATAAAACATTATTGAAGAGAAAGCAAGGATAATCTATGAAGACTACATTTCTATACTT
TCTCCTAAGGAGGTGAGCTTAGACTCCCGGGTGAGAGAAGTGATCAACAGAAACATGGTGGAGCCATCC
CAACACATATTCGATGATGCTCAACTTCAGATTTACACCTGATGCACAGAGACTCATATCCTCGATTCC
ATGAACTCTGCTGTATAAGGACTTGCTTCAGTCCTTATCGGAGAAATCTATTGAAGCA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237079
 Blue=ORF Red=Cloning site Green=Tag(s)

MPQLSQDNQECLQKHSRPSIWTFLLPLFRAQRYNTDIHQITENEGDLRAVPDIKQMGSERMEMRKRQM
 PAAQDTPGAAPGQPGAGSRGSNACCFWCCCCSCSCLTVRNQEDQRPTIASHELADLPTWEESPAPTL
 EEVNAWAQSFDKLMVTPAGRNAFREFLRTEFSEENMLFWMAEELKKEANKNIIIEEKARIYEDYISIL
 SPKEVSLDSRVREVINRNMVEPSQHIFDDAQLQIYTLMHRDSYPRFMNSAVYKDLLQSLSEKSIEA
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



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).

RefSeq: [NM_001286673.2](#)

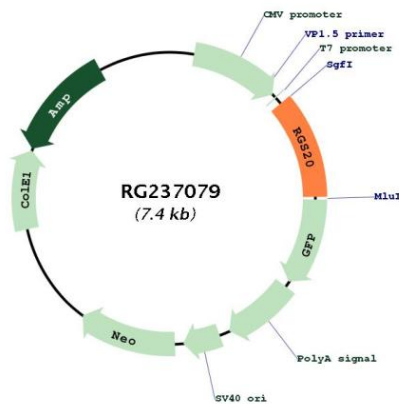
RefSeq Size: 1760 bp

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]

Product images:



Circular map for RG237079