

Product datasheet for **RG204634**

RGS18 (NM_130782) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RGS18 (NM_130782) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RGS18
Synonyms:	RGS13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204634 representing NM_130782 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAACAACATTGCTTTTCTTTCTCAAATAAATATGTGTGAATCAAAGAAAAAAGCTTTTCAAGT
TAATACATGGTTCAGGAAAAGAAGAAACAAGCAAAGAAGCCAAAATCAGAGCTAAGGAAAAAGAAATAG
ACTAAGTCTTCTGTGCAGAAACCTGAGTTTCATGAAGACACCCGCTCCAGTAGATCTGGCACTTGCC
AAAGAAACAAGAGTCTCCCTGAAGAGGCAGTGAATGGGGTGAATCATTGACAACTGCTTTCCATA
GAGATGGACTAGAGGCTTTTACCAGATTTCTTAAACTGAATTCAGTGAAGAAAAATTGAATTTGGAT
AGCCTGTGAAGATTTCAAGAAAAGCAAGGGACCTCAACAAATTCACCTTAAAGCAAAGCAATATATGAG
AAATTTATACAGACTGATGCCCAAAGAGGTTAACCTTGATTTTACACAAAAGAGTCATTACAAACA
GCATCACTCAACCTACCCTCCACAGTTTGTGCTGCACAAAGCAGAGTGTATCAGCTCATGGAACAAGA
CAGTTATACAGTTTTCTGAAATCTGACATCTATTTAGACTTGATGGAAGGAAGACCTCAGAGACCAACA
AATCTTAGGAGACGATCACGCTCATTTACCTGCAATGAATCCAAGATGTACAATCAGACGTTGCCATTT
GGTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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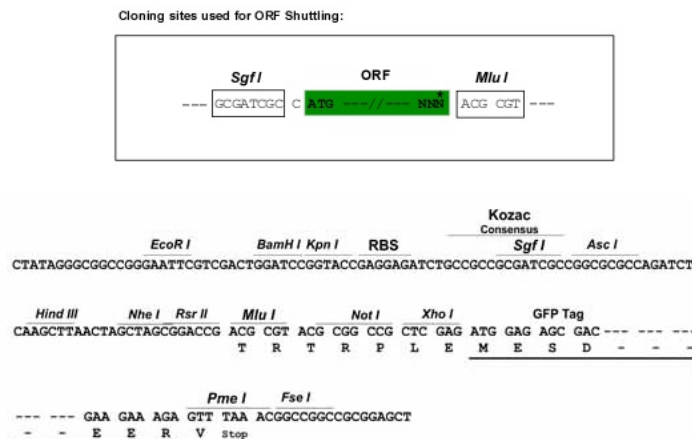
Protein Sequence: >RG204634 representing NM_130782
 Red=Cloning site Green=Tags(s)

METTLFFSQINMCESKEKTFKLIHGSGKEETSKEAKIRAKEKRNRLSLLVQKPEFHEDTRSSRSGLHA
 KETRVSPEEAVKWGESFDKLLSHRDGLEAFTRFLKTEFSEENIEFWIACEDFKKSKGPQQIHLKAKAIYE
 KFIQTDAPKEVNLD FHTKEVITNSITQPTLHSFDAAQSRVYQLMEQDSYTRFLKSDIYLDLMEGRPQRPT
 NLRRRRSRSTCNEFQDVQSDVAIWL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_130782

ORF Size: 705 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:

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_130782.1](#)

RefSeq Size: 2158 bp

RefSeq ORF: 708 bp

Locus ID: 64407

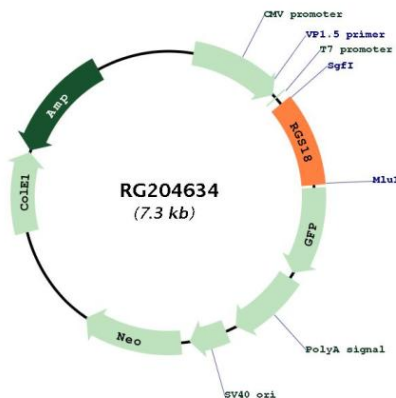
UniProt ID: [Q9NS28](#)

Cytogenetics: 1q31.2

Domains: RGS

Gene Summary: This gene encodes a member of the regulator of G-protein signaling family. This protein is contains a conserved, 120 amino acid motif called the RGS domain. The protein attenuates the signaling activity of G-proteins by binding to activated, GTP-bound G alpha subunits and acting as a GTPase activating protein (GAP), increasing the rate of conversion of the GTP to GDP. This hydrolysis allows the G alpha subunits to bind G beta/gamma subunit heterodimers, forming inactive G-protein heterotrimers, thereby terminating the signal. Alternate transcriptional splice variants of this gene have been observed but have not been thoroughly characterized. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG204634