

Product datasheet for **RR215062**

Rgs18 (NM_001047084) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rgs18 (NM_001047084) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Rgs18
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR215062 representing NM_001047084
Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGC
GCC

ATGGATATGTCACCTGGTTTTCTCTCTCACTTAAATATGTGTGAATCCAAAGAGAAAACCTTTTTTCAAAC
TAATGCACGGGTCAGAAAAAGAAGAAACAACATCGAGGCCAAAATCAGAGCTAAAGAAAAAGGAATAG
ACTAAGTCTTCTCCTACAGAGGCTGACTCCATGGAGAGACTCACACCAGTAGATCTGCCCTGTTGGCC
AAAGAAACAAGAGTCTCCTCTGAAGAAGCACTGAAATGGGCTGAATCATTGACAAACTGCTTTCTCATA
GAGATGGAGTAGATGCATTTACCAGATTTCTTAAACTGAATTCAGTGAAGAAAACATTGAATTTGGGT
TGCTGTGAAGACTTCAAGAAATGCACGGAACCTCAACAACCTCATCTAAAAGCAAAATCAATATATGAG
AAATTCATTAATAATGATGCCCTAAAGAGGTTAACCTTGATTTTCACTAAAGAAGTAATTAAGA
GCATCGCCAGCCACTCTCCACAGTTTGTGCAGCACAAGCAGAGTGTGTGAGTGTGGAACACGA
CAGTTATAAACGCTTTCTGAAATCCGAGATCTACTTACATTTGATAGAGGGAAGACCTCAGAGACCAACA
AATCTTAGGAGGCGATCGCGATCTTTACCTACAATGAGTCCAAGACGTAATAACAGATGTTGCCATTT
GGTTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR215062 representing NM_001047084
Red=Cloning site Green=Tags(s)

MDMSLVFFSHLNMCESKEKTFKLMHGSGKEETNIEAKIRAKEKRNLISLLLQRPDFHGETHTSRALLA
KETRVSSEEALKWAESFDKLLSHRDGVDAFTRFLKTEFSEENIEFWACEDFKKCTEPQQLILKAKSIYE
KFIKNDAPKEVNLDFHTKEVITKSIAQPTLHSDAAQSRVCQLMEHDSYKRFLKSEIYLHLIEGRPQRPT
NLRRRSRSFTYNEFQDVKSDVAIWL

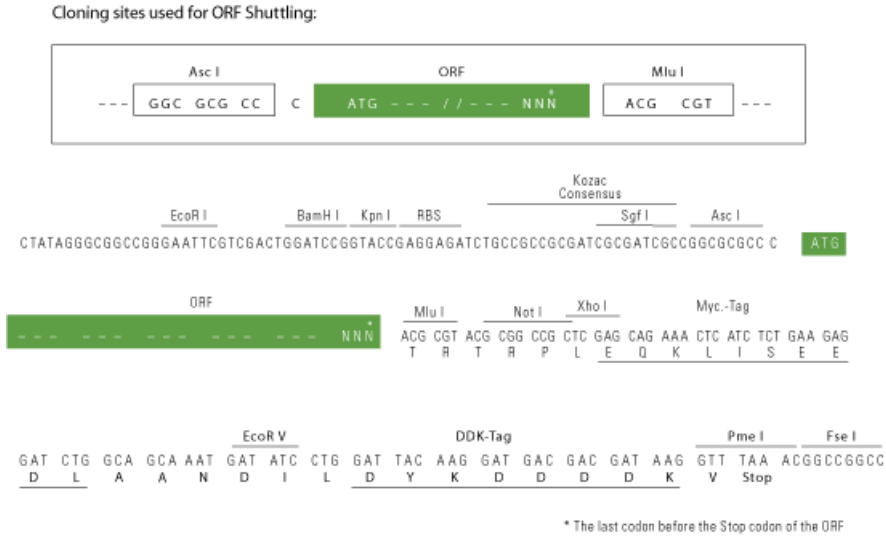
TRTRPLEQKLISEEDLAANDILDYKDDDDKV



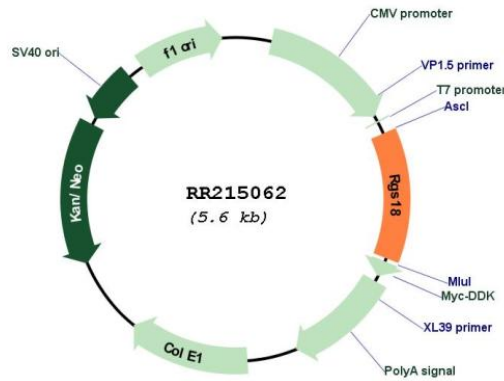
[View online >](#)

Restriction Sites: AscI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001047084

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:	<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:	<u>NM_001047084.1</u> , <u>NP_001040549.1</u>
RefSeq Size:	708 bp
RefSeq ORF:	708 bp
Locus ID:	289076
UniProt ID:	<u>Q4L0E8</u>
Cytogenetics:	13q21
MW:	27.6 kDa
Gene Summary:	Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits thereby driving them into their inactive GDP-bound form. Binds to G(i) alpha-1, G(i) alpha-2, G(i) alpha-3 and G(q) alpha (By similarity).[UniProtKB/Swiss-Prot Function]