

## Product datasheet for MR201936

### Rgs1 (NM\_015811) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rgs1 (NM\_015811) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Rgs1  
**Synonyms:** BL34  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR201936 representing NM\_015811  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGCCAGGAATGTTCTTTCTGCTAGCCCAAAGGATTCGAAAGAACACAGCCATTCTCTTAGACGACA  
 AAAAGCAGAAAAAAGGCCAAAGACTTTTGAATGGACGTGAAAACATACCTGAGATCGATGCCACA  
 TCTGGAATCTGGGATGAAATCGGCCAAGTCCAAGACATACTTTCTGCTGAAGAAGTAATGCAGTGGTCT  
 CAGTCTCTGAAAACTCCTTGCCAACCGACAGGTCAAATGTCTTTGGAAGATTCTAAAGTCTGAAT  
 TCAGTGAGGAAAAATTGAATTCTGGTTGGCTTGTGAGGACTATAAGAAAACAGAGACTGATCTTTGCA  
 TAACAAAGCAGAGAATATATACAAAGCATTGTGCATTCAGATGCTGTGAAACAAATCAATATTGACTTC  
 CATACTCGAGAATCGACAGCCAAGAAGATTAACACCAACTCCCACATCTTTGATGAAGCACAAAAAG  
 TCATATATTCACTCATGGAAAAAGATTCTATCCAGGTTCTGAAATCAAATTTACTTAAATCTTCT  
 AAATGACCTTCAGGCAAACTTTAAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201936 representing NM\_015811  
 Red=Cloning site Green=Tags(s)

MPGMFFSASPKDSKEHSHSLDDKKQKKRPKTFGMDVKTYLRSMIPHLESGMKSAKSKDILSAEEVMQWS  
 QSLEKLLANQTGQNVFGRFLKSEFSEENIEFWLACEDYKKTETDLLHNKAENIYKAFVHSDAVKQINIDF  
 HTRESTAKKIKTPTPTSFDEAQKVIYSLMEKDSYPRFLKSNIYLNLLNDLQANTLK

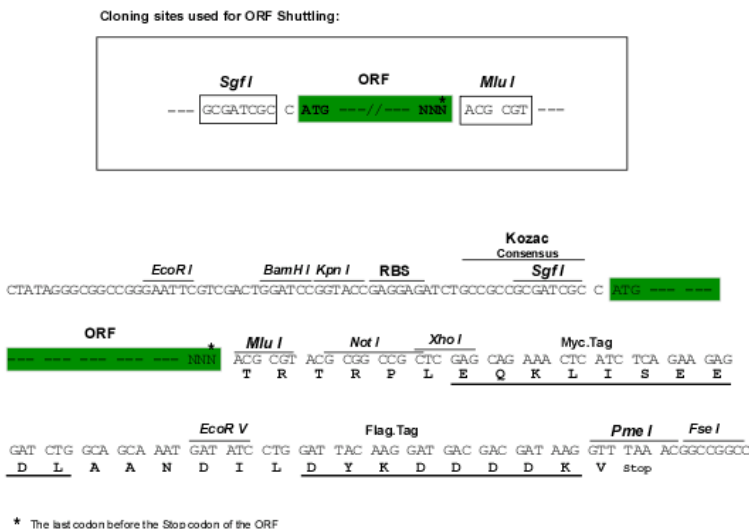
TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_015811

ORF Size: 588 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\\_015811.1](#), [NP\\_056626.1](#)

RefSeq Size: 1274 bp

RefSeq ORF: 630 bp

Locus ID: 50778

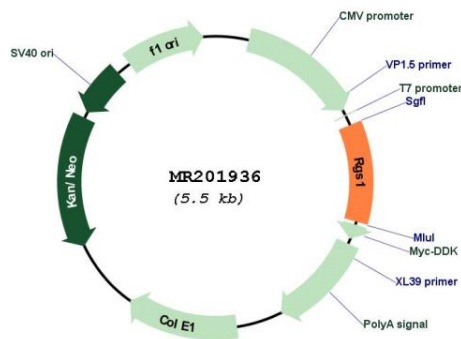
UniProt ID: [Q9JL25](#)

**Cytogenetics:** 1 62.56 cM

**MW:** 24.6 kDa

**Gene Summary:** Regulates G protein-coupled receptor signaling cascades, including signaling downstream of the N-formylpeptide chemoattractant receptors and leukotriene receptors. Inhibits B cell chemotaxis toward CXCL12 (PubMed:10779778). Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits thereby driving them into their inactive GDP-bound form (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR201936