

## Product datasheet for **RR204743**

### **Rgs14 (NM\_053764) Rat Tagged ORF Clone**

#### **Product data:**

|                    |  |
|--------------------|--|
| Product Type:      | Expression Plasmids                    |
| Product Name:      | Rgs14 (NM_053764) Rat Tagged ORF Clone |
| Tag:               | Myc-DDK                                |
| Symbol:            | Rgs14                                  |
| Synonyms:          | MGC108631                              |
| Vector:            | pCMV6-Entry (PS100001)                 |
| E. coli Selection: | Kanamycin (25 ug/mL)                   |
| Cell Selection:    | Neomycin                               |



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**ORF Nucleotide Sequence:**

>RR204743 representing NM\_053764  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCAGGAAGCCCAAGCACTTGGGTGTCCCAACGGGCGCATGGTCTGGCTGTCTCTGATGGAGAAC  
 TGACCAGCACATCAGTTCCAGGCCAGGGTGAGGGCAGAGGCAGCTCCCTCAGCATCCACAGCTCC  
 CAGTGGCCCCAGCAGCCCTTCTCCACTGATGAGCAGCCTGTGGCCAGCTGGGCCAGTCCTTTGTAGCGG  
 CTGCTGCAAGACCCACGGGGTCTGGCTTACTTCACTGAGTTCTGAAGAAGGAATTCAGCGCCGAGAATG  
 TAACCTTCTGGCAAGCCTGCGAGCGTTTCCAACAGATCCAGCCAGCGACACCAACAGCTAGCTCAGGA  
 GGCCACAACATCTACCATGAGTTCTGTCCAGCCAGGCACTGAGCCAGTGAACATCGACCGACAGGCC  
 TGGCTTAGTGAGGAGTGTGGCCAGCCAGGCCGATATGTTCCGAGCACAGCAGCTTCAGATCTTCA  
 ATTTGATGAAGTTCGACAGCTACGCGCGCTTCGTCAAATCCCGCTGTACCAAGAGTGCCTGCTGGCCGA  
 GGCCGAGGACGCCCCCTGCGGGAACCTGGATCCTCACACCTCGGAGCCCGGACACTGCGAGGAAGAAG  
 CCAAAGCTGAAGCCTGAAAGTCACTGCCGCTCGGTGTGGAAGAGTTGGGCGAGCTGCCGCTTGCTGAGG  
 GCCGCCCTCTCCCAAGTCCCTTTCGTAGAGAGATGCCGGTGGAGCTGTGAATTCGGCCCTGCGACGAGA  
 GTCTCAGGGATCCCTGAATTCCTCCGCGAGTCTGGACCTGGGCTTCTTGCCTTTGTGAGCAGAAATCC  
 GAGAGCCACCGAAAGAGCCTTGAAGTGGAGAGGGTGAGAGCGAAAGCCGGCCCGGAAGTACTGCTGCG  
 TGTATCTACCTGATGGCAGGCCCTCTTGGCCCTGGCTCGACCTGGCCTCACCATCCGTGACATGCTGGC  
 AGGCATCTGTGAGAAGAGAGGCCCTCTCTACCTGACATTAAGGTCTACCTGGTGGGCAAGAACAAGAAG  
 GCCCTGGTCTGGATCAGGACTGCACCGTGTGGCAGACCAGGAAGTGGACTGGAAAACAGGATCACCT  
 TCCAGCTGGAGTTGGTCCGCTGGAGCGTGTGGTACGGATCTCTGCTAAGCCCAAGCCTCTGCGAGGA  
 GGCGTGCAGCCTATCTTGGCCAAGCACGGCCTGAGCCTGGATCAGGTGGTCTACACAGGCCAGGAGAG  
 AAGCAGCTAGTGGATTTGGAGAATCTAGTGAGCTCAGTGGCTTACAGACACTGGTTTTGGACACTTTC  
 CAGATGCAAAGACAAGGGAAGCCAGCAGCATACCTCCCTGCCGACCCAGGGATGCCTCCCTAGAACCCA  
 GACCAAGGACAGTCACTTCTCCACTGTCTCCAGTTTGTGGTAGAAGATGCCAGTGGTTCTACTGGG  
 AAACGACAGACCTGCGACATTGAAGCCTAGTGGAGCTGTGAATCGTGTGCAGAGCAGCGGGGCCATG  
 ACCAGAGGGGACTTCTTCGAAAGAGGACCTGGTCTCCAGAATTTCTGCAGCTTCTTCCAAAGACC  
 AGGTTCTCAGGAGGCTCCACCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR204743 representing NM\_053764  
 Red=Cloning site Green=Tags(s)

MPGKPKHLGVPNGRMVLA VSDGELTSTSGSQAQGEGRGSSL SIHSLPSGPSSPFSTDEQPVASWAQSFER  
 LLQDPRGLAYFTEFLKKEFSAENVTFWQACERFQQIPASDTKQLAQEAHNIYHEFLSSQALSPVNI DRQA  
 WLSEEVLAQPRPDMFRAQQLQIFNLMKFDSYARFVKSPLYQECLLAEAEGRPLREPGSSHLGSPD TARKK  
 PKLKPGLSLPLGVEELGQLPLAEGRPLRKSFRREMPGGAVNSALRRESQGSLSNSASLDLGF LAFVSSKS  
 ESHRKSLSGSGEGESESRPGKYCCVYLPDGTASLALARPGLTIRDMLAGICEKRGSLPDIKVYL VGKEQK  
 ALVLDQDCTVLADQEVRENITFQLELVGLERVVIRISAKPTKRLQEALQPILAKHGLSLDQVVLH RPEGE  
 KQLVDLENLVSSVASQTLVLDLTPDAKTREASSIPCRSQGLPRTQTKDSHLPPLSSSLSVEDASG STG  
 KRQTCDI EGLVELLNRVQSSGAHDQRGLLRKEDLVLPFLQLPSQRPGSQEAPP

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

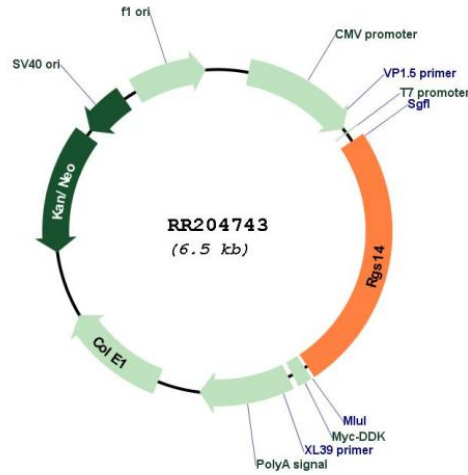
Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



|                               |  |
|-------------------------------|--|
| <b>ACCN:</b>                  | NM_053764  |
| <b>ORF Size:</b>              | 1632 bp  |
| <b>OTI Disclaimer:</b>        | <p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p> |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.   |
| <b>Components:</b>            | 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).   |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>  |
| <b>RefSeq:</b>                | <u><a href="#">NM_053764.1</a></u> , <u><a href="#">NP_446216.1</a></u>  |
| <b>RefSeq Size:</b>           | 2854 bp  |
| <b>RefSeq ORF:</b>            | 1635 bp  |
| <b>Locus ID:</b>              | 114705   |
| <b>UniProt ID:</b>            | <u><a href="#">O08773</a></u>  |
| <b>Cytogenetics:</b>          | 17p14  |
| <b>MW:</b>                    | 59.5 kDa   |
| <b>Gene Summary:</b>          | binds Galpha(i1)GDP and acts as a GTPase activator by maintaining G-protein subunit dissociation; regulates G-protein mediated signaling [RGD, Feb 2006]   |