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# Product datasheet for RC223124

## RGS12 (NM_198227) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | RGS12 (NM_198227) Human Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | RGS12 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |



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**ORF Nucleotide Sequence:**

>RC223124 representing NM_198227
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAATTTGGGGAAAGAGTTGTCAAACGAAACCCATGTTTCTAATGACCAGCAGTCTGCAACTGTGTCTG
ATGGCGAGTTGACGGGCGCCGACCTGAAGGACTGCGTCAGCAACAACAGCCTGAGCAGCAATGCCAGCCT
CCCCAGCGTGCAGAGCTGCCGGCGCCTGCGTGAGAGGAGGGTCGCCAGCTGGGCCGTGTCCTTTGAGCGC
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TTTTATTCTGGCAGGCCTGTGAATATTTTAATCATGTTCCTGCACATGACAAAAAGGAGCTTTCCTACAG
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CAGCTAGCAGACGACGTCCTCCGCGCACCTCACCCAGACATGTTCAAGGAGCAGCAGCTGCAGATCTTCA
ATCTCATGAAGTTTGATAGCTACACTCGCTTTCTGAAGTCCCCGCTGTACCAGGAATGCATCCTGGCGGA
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GGTGGCTGTCAAGGCGGGCTTCTCCATCAAAGACATCCTGTCCGGACTCTGTGAGCGGCATGGCATCAAC
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TGGAGTCAAGGGACCTGCGCCTAGAAAAGCGCACCTTGTTTCGGCTGGATCTTGTTCCGATTAACCGGTC
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CTGGACCTCAGTGGCCTGCTGGTGAGGCTGAGTGGAGAGAAGGAGCCCCTGGACCTTGGCGCCCCTATAT
CGAGTCTGGACGGACAGCGGGTTGTCTTGGAGGAGAAGGATCCTTCCAGAGGAAAGGCATCCGCAGATAA
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CCCGGCTTTCAAAGAGAGAAGAATCTATTGCAAAGATTGGGAAAAAAAAATATCAGAAAATTAATTTGGA
CGAAGCAGAGGAGTTTTTTGAGCTTATTTCCAAAGCTCAGAGCAACAGAGCAGATGACCAACGTGGGCTG
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AGCAGCCCCAACAGCACCTTGCTGCCGCCGCCCTCCACCCCCCAGGAAGTGCCAGGACCTTCCAGACCAG
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CCTCCTACATCAGACCTCCCTGGCTTGGGCCCCGTCCCGGGTGAGCCTGCTAAGCCCAAGACCAGCGCTC
ACCACGCCACCTTCGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

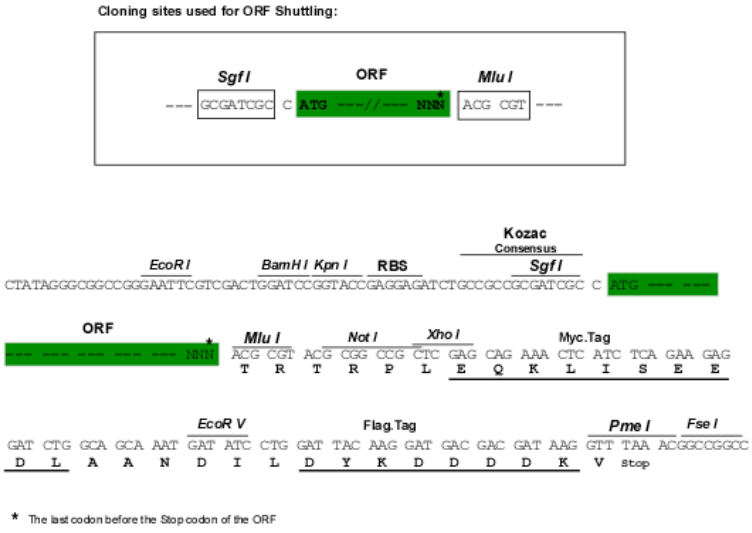
>RC223124 representing NM_198227
Red=Cloning site Green=Tags(s)

MNLGKELSNETHVSNDQQSATVSDGELTGADLKDCVSNNSLSSNASLPSVQSCRRLRERRVASWAVSFER
LLQDPVGVRYFSDFLRKEFSEENILFWQACEYFNHVPAHDKKELSYRAREIFSKFLCSKATTPVNIDSQA
QLADDVLRAPHPDMFKEQQLQIFNLMKFDSYTRFLKSPLYQECILAEVEGRALPDSQQVPSSPASKHSLG
SDHSSVSTPKKLSGKSKSGRSLNEELGDEDSEKKRKGAFFSWSRTRSTGRSQKKREHGDHADDALHANGG
LCRRESQGSVSSAGSLDLSEACRTLAPEKDKATKHCCIHLPDGTSCVVAVKAGFSIKDILSGLCERHGIN
GAAADLFLVGGDKPLVLHQDSSILESRDLRLEKRTLFRLDLVPINRSVGLKAKPTKPVTEVLRPVVARYG
LDLSGLLVRLSGEKEPLDLGAPISSLDGQRVVLEEKDPSRGKASADKQKGVPVKQNTAVNSSSRNHSATG
EERTLGKSNSIKIKGENGKNARDPRLSKREESIAKIGKKKYQKINLDEAEEFFELISKAQSNRADDQRGL
LRKEDLVLPEFLRLPPGSTELTLPTPAAVAKGFSKRSATGNGRESASQPGEQWEPVQESSDSPSTSPGSA
SSPPGPPGTTPPGQKSPSGPFCTPQSPVSLAQEGTAQIWKRQSQEVEAGGIQTVEDEHVAELTLMGEGDI
SSPNSTLLPPPSTPQEVPGPSRPGSGTHGSRDLPVNRIIDVDLVTGSAPGRDGGIAGAQAGPGRSQASGG
PPTSDLPGLGPVPGEPAKPKTSAHHATFV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** NM_198227

**ORF Size:** 2397 bp

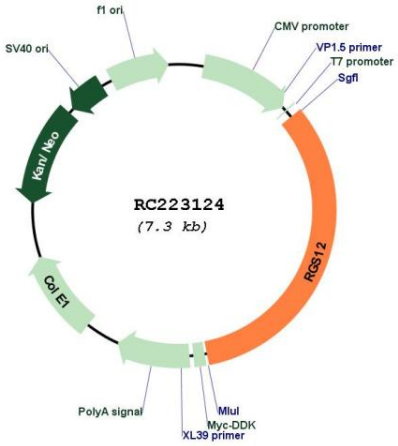
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_198227.2 |
| **RefSeq Size:** | 2916 bp |
| **RefSeq ORF:** | 2400 bp |
| **Locus ID:** | 6002 |
| **UniProt ID:** | O14924 |
| **Cytogenetics:** | 4p16.3 |
| **Protein Families:** | Druggable Genome |
| **MW:** | 85.8 kDa |
| **Gene Summary:** | This gene encodes a member of the 'regulator of G protein signaling' (RGS) gene family. The encoded protein may function as a guanosine triphosphatase (GTPase)-activating protein as well as a transcriptional repressor. This protein may play a role in tumorigenesis. Multiple transcript variants encoding distinct isoforms have been identified for this gene. Other alternative splice variants have been described but their biological nature has not been determined. [provided by RefSeq, Jul 2008] |

## Product images:




Circular map for RC223124