

## Product datasheet for **MC219624**

### **Rgs3 (NM\_019492) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rgs3 (NM_019492) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rgs3
Synonyms:	4930506N09Rik; C2pa; C2PA-RGS3; PDZ-RGS3; RGS3S
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC219624 representing NM\_019492  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGAGGCCACATCAGGATGCTTCTTGTCCAAAAAGATGCCTGCACCCAGACTTACCCACCTAGGA  
 GGAGGATCAGGCATGCCCAAGTGCAGGATGCAGGTCAACTGAAGCTGTCCATTGATGCCAGGATCGGGT  
 TCTGCTGCTGCACATCATAGAAGCAAAGGCTGATGAGCAGGGAGCCTGGCATCTGCGATCCCTATGTG  
 AAGTTTCTTTGATCCCAGAAGACAGCCAGCTCCCTGCCAGACCACACAGATCATTCCAGACTGCCGAG  
 ACCCAGCTTTCCACGAGCACTTCTTCTTCTGTCCAGAGGAGGGTGATCAGAAGCGTCTTCTGGTGAC  
 AGTGTGGAACCGGGCCAGTGAGACCAGGCAGCATACGCTTATTGGCTGCATGAGCTTTGGGGTGAGGTCT  
 CTCTTGACTCCGGACAAGGAGATCAGTGGCTGGTACTATCTGCTAGGGGAGGACCTGGTTCGGACCAAGC  
 ACCTCAAGGTGGTAGGGCGCGCTCCAGCCCCTGAGAGACATGCTGTTGAGAATGCCAGGAGAGGGGGA  
 CCCTGAGAACCGGGGAGAACTCCAGATCACCATCCGGAGGGGCAAGACGGCTTTGGCTTACCATCTGC  
 TGTGACTCTCCGGTCCGAGTCCAGGCTGTGGATTCTGGGGGCCCGCAGAGAGGGCGGGACTGCAGCAGC  
 TGGACACAGTGCTACAACGAATGAGAGACCCGTGGAGCACTGGAAATGTGTGGAGCTGGCACATGAGAT  
 CCGGAGCTGTCTAGCGAGATCATCTGCTCGTGTGGCTGTGGTCCCCCAGATCAAGCCGGGGCCAGAT  
 GGCGGAGTCTTGGCGGGCCCTCCTGCAAGTCCACACATGACCTCCTGTCAACCCCTAACAGAGGGGAGA  
 AGAACTGTACTCATGGGGCCCCAGTTCGCTCCTGAGCAGCGCCACAGCTGCCACCTGGTGTGTGACAGCTC  
 TGATGGTCTACTGCTTGGTGGCTGGGAGCGCTACACTGAGGTGGCAAGCGCAGTGGCCAGCACACCCTG  
 CCTGCACTGTCCCGACCACCACCCTACTGACCCCAACTACATCATCTGGCCCCACTGAATCCTGGAA  
 GCCAGTTGCTGCGGCCTGTGTACCAGGAGGATAACAATCCCTGAAGAACCGGGGACTACTAAAGGGAA  
 ATCGTACACCGGCCTGGGCAAGAAGTCTCGGCTCATGAAGACAGTGCAGACCATGAAGGGCCACAGTAAC  
 TACCAAGACTGCTCAGCCCTGAGACCGCACATCCCGCATTCCAGTTACGGCACCTATGTCACCCTGGCCC  
 CTAAGTCTGGTGTTCCTGTCTTTGTGCAGCCCTAGATCTCTGTAACCCTGCCCGGACTCTCTGCT  
 GTCGGAGGAGCTGCTGTATGAGGGGAGGAACAAGACTTCCAGGTGACACTGTTTGCCTACTCGGAC  
 CTGCTGCTGTTCACTAAGGAGGAGGAGCCAGGCCGCTGCGACGCTCCTGAGAAATCCCTCTACCTCCAGA  
 GCGTGAAGCTACAGGAGGGCTCTCAGAAGACTTAAAATTCTGTGTGCTGTACCTGGCAGAGAAGGCAGA  
 GTGCTTATTCACCTTTGGAGGCACACTCGCAGGAGCAGAAGAAGAGAGTGTGCTGGTGCCTGTCGGAGAAC  
 ATCGCCAAGCAGCAACAGCTGGCCGCACCCTACAGAGAGGAAGAACTTACCCTTACGGCTCTCTCC  
 AGCAGGAGATGGGGCCAGTCACCTCCATCAGTGCCACCCAGGATAGAAGCTTTACCTCATCAGGACAGAC  
 CCTGATTGGCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_019492

**Insert Size:** 1833 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_019492.3](#), [NP\\_062365.2](#)

**RefSeq Size:** 4705 bp

**RefSeq ORF:** 1833 bp

**Locus ID:** 50780

**UniProt ID:** [Q9DC04](#)

**Cytogenetics:** 4 33.19 cM

**Gene Summary:** Down-regulates signaling from heterotrimeric G-proteins by increasing the GTPase activity of the alpha subunits, thereby driving them into their inactive GDP-bound form. Down-regulates G-protein-mediated release of inositol phosphates and activation of MAP kinases. [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) differs in the 5' and 3' exon structure compared to variant 2. It encodes isoform 1 which is shorter and has distinct N- and C-termini, compared to isoform 2. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.