

Product datasheet for **MR208960**

Rgs3 (BC033449) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rgs3 (BC033449) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rgs3
Synonyms:	C2pa, PDZ-RGS3, RGS3S, C2PA-RGS3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR208960 representing BC033449
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTTGAGACAGAGGCAGATGAGAAGGAGATGCCCTGGTCGAGGGGAAGGGGCCAGGTGCTGAGGAAC
 CCGCACCCAGCAAAAATCCCTCTCTGGCCAGGAGCTTCTCCAGGACAAGACCTCCCTCCAGCAAGA
 CCCCTCTCCAGCCAGGAGCTTCTGCAGGACAAGATCTCCCTCCAGCAAAAGACCCCTCTCCAGCCAG
 GAGCTTCTGCAGGACAAGATCTCCCTCCAGCAAAAGACCCCTCTCCAGCCAGGAGCTTCTGTAGGAC
 AAGACCTCCACCCAGGAAGGACTCCTCAGGCCAAGAAGTGTCTCTGGCCAGAATCACCATCCAGTGA
 AGACATAGCAACCTGCCCTAAGCCCCCTCAAAGCCAGAAACCTCAACAAGCAAGGACTCCACCAGGC
 CAGGGATCTCCCGACCACAGAACTCCATCTTGCCAGGGCCTTCTGCTGGTCAAGAATCTACTAGCC
 AGGACCCTCTGCTCAGTCAAGAGCCCCGTATCCCAGAATCTCTGCCTCCGTCAGAAACGCCTACC
 CTCTCAGGAGTACCCTCCAGCCTGGGCTCCCTGCCAGAGAAGGACCTTGTCTGAGCAGACCATCAGTCC
 GGGGAGCCACCAGTCCGACTGGTGTACTGCCAGCCTTAGACCTAACTTTGTGATCCCGAGGTGC
 GTCTGGATAATGCCTACAGCCAACCTGGATGGGGCCACCGAGGCAGCTCTGGCGAGGACGAGGATGCAGA
 AGAGGGAGAGGGGGGAGAAGGGGAGGAAGTGAAGGAGGACGACACCAGCGACGACAACCTACGGGGAT
 CGTAGTGAGGCCAAGCGCAGCAGCCTGATTGAGACTGGCCAAGGCGCCGAGGGCGGCTTCTCGTTGCGTG
 TGCAGAACTCGTGCAGCGCCGACGCACAGCGAGGGCAGCCTGCTGCAGGAGTCCCGGGGGCCCTGCTT
 TGCCTCTGACACCACCTTACACTGCTCTGATGGCGAGGGCGCCACATCCACCTGGGCTATCCCTTACCC
 CGCACCTCAAAAAGAAGTGGGCTGTAATGGAGGCTCCATGCACCACCTTCCCTGTTCTTCCAGGGAC
 ACAGAAAGATGAGTGGGACTGACCTCACAGAATGTGATGAAGCTTCCCGAAGAGAAGAGCAAAAACAT
 AGCCAAGGACATGAAGAATAAGCTGGCCATCTTCAAGCGCGGAACGAATCTCCCGGGGCTCAGCCAGCC
 AGCAAGACAGACAAGACAACCAAGTCTTCAAGCCTACCTCGGAGGAAGCCCTCAAGTGGAGCGAGTCCC
 TGGAAAAGTTGCTGCTTCATAAATATGGCTTAGAAGTGTCCAGGCCTTCCCTCGCACCGAGTTCAGTGA
 GGAGAACCTGGAGTTTTGGCTCGCTTGCAGGACTTCAAGAAGGTCAAATCACAGTCCAAGATGGCAGCC
 AAAGCCAAGAAGATCTTTGCTGAATTCATCGCAATCCAGGCTTCAAAGAGGTAAACCTGGACTCCTACA
 CACGAGAACACACCAAGGAGAATCTGCAGAGCATACCCGAGGCTGCTTTGACTTGGCACAGAAACGTAT
 CTTTGGGCTCATGGAGAAGGACTTTACCCTCGCTTCTCCGCTCTGACCTCTACCTGGACCTCATTAA
 CAGAAGAAGATGAGTCCCCCGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208960 representing BC033449
 Red=Cloning site Green=Tags(s)

MFETEADEKEMPLVEKGPGAEPPAPSKNPSGQELPPGQDLPPSKDPSQELPAGQDLPPSKDPSQ
 ELPAGQDLPPSKDPSQELPVGQDLPPRKDSSGQEAAPGPESPSEDIATCPKPPQSPETSTKSDSPG
 QGSSPTTELPSQGLPAGQESTSQDPLLSEPPVIPSSASVQKRLPSQESPSLGLPEKDLAEQTISS
 GEPPVATGAVLPASRPNFVPEVRLDNAYSQLDGAHGGSSGEDEDAEEGEEGGEGEEDDTSDNYGD
 RSEAKRSLIETGQGAEGGFSLRVQNSLRRRTHSEGSLLQESRGPCFASDTTLHCSDGEGATSTWAI
 PSPRTLKKEKELGRNGSMHLSLFFTGHRKMSGTDLTECDEASRKRKSKNIAKDMKNLAI
 FRRRNEPGAQPA SKTDKTKSFKPTSEEALKWSESLKLLLHKYGLEVFQAFRLTEFSEENLEFWL
 ACEDFKKVKSSQKMAA KAKKIFAEFIAIQACKEVNLDSYTREHTKENLQSI
 TRGCFDLAQKRIFGLMEKDSYPRFLRSDLYLDLIN QKKMSPPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

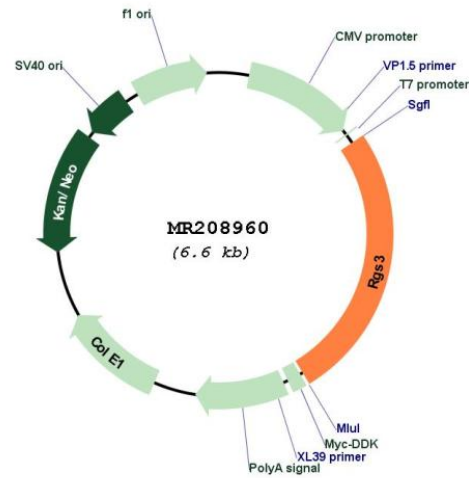
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: BC033449

ORF Size: 1704 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:	BC033449.1
RefSeq Size:	2821 bp
RefSeq ORF:	1706 bp
Locus ID:	50780
Cytogenetics:	4 33.19 cM
MW:	103.4 kDa
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]