

# Product datasheet for MR202294

## Rgs2 (NM\_009061) Mouse Tagged ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

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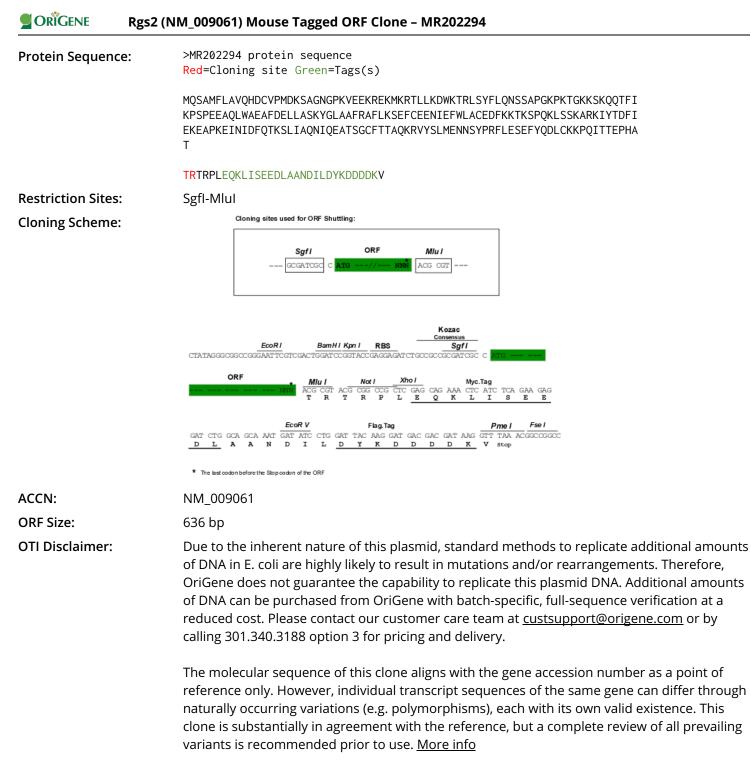
Product Type:	Expression Plasmids
Product Name:	Rgs2 (NM_009061) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rgs2
Synonyms:	GOS8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;MR202294 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGCC</mark>

ATGCAAAGTGCCATGTTCCTGGCTGTCCAGCACGACTGCGTACCCATGGACAAGAGTGCAGGCAACGGCC CCAAGGTCGAGGAGAAGCGGGAGAAAATGAAGCGGACACTCTTAAAGGATTGGAAGACCCGTTTGAGCTA CTTCTTGCAGAATTCCTCTGGCTCCTGGGAAGCCCAAAACTGGCAAGAAAAGCAAACAGCAAACTTTTATC AAGCCTTCTCCTGAGGAAGCGCAGCTCTGGGCAGAAGCATTTGATGAACTGCTGGCCAGTAAATATGGGC TGGCTGCATTCAGGGCGTTTTTAAAGTCCGAGTTCTGTGAAGAAAACATTGAATTCTGGTTGGCTTGTGA AGACTTCAAAAAACCAAATCACCCCAAAAACTGTCCTCAAAAGCAAGGAAAATCTATACCGACTTCATA GAGAAGGAAGCTCCCAAAAGCAACATGACTTCCAAAAGCAAGGAAAATCTATACCGACTTCATA GAGAAGGAAGCTCCCAAAAGAGATAAACATAGACTTCCAAACGAAATCTTGATTGCCCAAAATATCCAAG AGGCTACAAGTGGCTGCTTCACCACAGCTCAGAAGAGGGTGTACAGTTTGATGGCGAGAACATTCTTATCC TCGGTTCTTGGAGTCCGAATTCTACCAGGACTTATGTAAAAAGCCACAGATCACCACGGAGCCCCATGCT ACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG**GTTTAA** 



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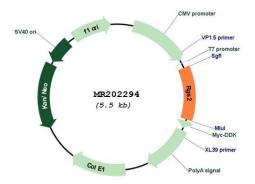


# **OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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CRIGENE Rgs2 (NM_009061) Mouse Tagged ORF Clone – MR202294	
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> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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>
RefSeq:	<u>NM 009061.4</u>
RefSeq Size:	3009 bp
RefSeq ORF:	636 bp
Locus ID:	19735
UniProt ID:	<u>008849</u>
Cytogenetics:	1 62.56 cM
MW:	24.3 kDa
Gene Summary:	Regulates G protein-coupled receptor signaling cascades. Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits, thereby driving them into their inactive GDP-bound form (By similarity). It is involved in the negative regulation of the angiotensin-activated signaling pathway (By similarity). Plays a role in the regulation of blood pressure in response to signaling via G protein-coupled receptors and GNAQ. Plays a role in regulating the constriction and relaxation of vascular smooth muscle (PubMed:14608379). Binds EIF2B5 and blocks its activity, thereby inhibiting the translation of mRNA into protein (By similarity).[UniProtKB/Swiss-Prot Function]

## **Product images:**



Circular map for MR202294

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