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Product datasheet for MC201691

Rgs2 (NM_009061) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rgs2 (NM_009061) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rgs2
Synonyms:	GOS8
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC023001 sequence for NM_009061 GCGGGAGTCTGAGAATGCAAAGTGCCATGTTCCTGGCTGTCCAGCACGACTGCGTACCCATGGACAAGAG TGCAGGCAACGGCCCCAAGGTCGAGGAGAAGCGGGAGAAAATGAAGCGGACACTCTTAAAGGATTGGAAG ACCCGTTTGAGCTACTTCTTGCAGAATTCCTCTGCTCCTGGGAAGCCCAAAACTGGCAAGAAAAGCAAAC AGCAAACTTTTATCAAGCCTTCTCCTGAGGAAGCGCAGCTCTGGGCAGAAGCATTTGATGAACTGCTGGC CAGTAAATATGGGCTGGCTGCATTCAGGGCGTTTTTAAAGTCCGAGTTCTGTGAAGAAAACATTGAATTC TGGTTGGCTTGTGAAGACTTCAAAAAAACCAAATCACCCCAAAAACTGTCCTCAAAAGCAAGGAAAATCT ATACCGACTTCATAGAGAAGGAAGCTCCCAAAGAGATAAACATAGACTTCCAAACGAAATCTCTGATTGC CCAAAATATCCAAGAGGCTACAAGTGGCTGCTTCACCACAGCTCAGAAGAGGGTGTACAGTTTGATGGAG AACAATTCTTATCCTCGGTTCTTGGAGTCCGAATTCTACCAGGACTTATGTAAAAAGCCACAGATCACCA CGGAGCCCCATGCTACATGAGACCAGGAGTCCCCCCACACACAAAGGACATTCCATTCTGTCTCCCAAGA GCAAAGGCTGTGACCTGCCAGAAAAAAAAAAAAAAAACTGACCTTGAATTCAGCCTGAGTGTTAGGAAAAC ATCGCTCAGAACTATTGATTCAATGTTGGGTAGTGAATCAGGAAGTCAGCAACCTAGGAGAGGCTCTGTG TGAGAACGGCTTCCCTCACTGTGTGAAGAACAGAGGGAGGGAACAGGCCTCTGAATGTGTTCTTCCTCCT TGTCGGGAAAGCAGAGTTTGAGATGAAAGATCCGATGCAATGTTGTTGGAGCATTTAAAATCAATAGGTC TGGGATTATGTGGCCTTAGCTAGTTGGCTGTACACCTTCCCTAAACTAGTCCATGTTACCACATAGTGGT GTTAGTTCTAGTTTTAATATTTTAGTACTAAGTAACATTACAATGTTTACTGTGTGCAAGGGTGTTGACG TTCTTAGGACTACAGATCATTAGTACTAGTGTGTCACGTATCACTGAAACTGAGAAGTATGTTTGAGTTG TTAAATGGTGTGTGTGATGGACCGAATGCTGTGCCGTGCTGTAGAACCAGCGTCTGTTACGAGTGCCAAA AACTGTCTTGCGGGCAGCTAAACTTTGAAGTGGTTTTTGAATACTTTTAATAAATTTATTTTGCTAAATA ATGTCATTGAAAAAAAAAAAAAAA
Restriction Sites:	RsrII-NotI
ACCN:	NM_009061
Insert Size:	636 bp

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OTI Disclaimer: 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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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

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: BC023001, AAH23001

RefSeq Size: 1354 bp

RefSeq ORF: 636 bp

Locus ID: 19735

UniProt ID: O08849

Cytogenetics: 1 62.56 cM

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]

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