

Product datasheet for MR215152

Rgs3 (NM_001081650) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rgs3 (NM_001081650) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Rgs3
Synonyms: 4930506N09Rik; C2pa; C2PA-RGS3; PDZ-RGS3; RGS3S
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR215152 representing NM_001081650
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAACCGCTTCAATGGGCTCTGCAAAGTGTGTTCAGAACGCCGCTACCGGCAGATCACCATCCGGAGGG
 GCAAAGACGGCTTTGGCTTACCATCTGCTGTGACTCTCCGGTCCGAGTCCAGGCTGTGGATTCTGGGGG
 CCCGGCAGAGAGGGCGGGACTGCAGCAGCTGGACACAGTCTACAACCTGAATGAGAGACCCGTGGAGCAC
 TGGAAATGTGTGGAGCTGGCACATGAGATCCGGAGCTGTCTAGCGAGATCATCTGCTCGTGTGGCGTG
 TGGTCCCCAGATCAAGCCGGGGCCAGATGGCGGAGTCTTGCGGCGGGCCTCTGCAAGTCCACACATGA
 CCTCTGTCAACCCCTAACAAAGAGGGAGAAGAACTGTAATCATGGGGCCCCAGTTCGTCCTGAGCAGCGC
 CACAGCTGCCACCTGGTGTGTGACAGCTCTGATGGTCTACTGCTTGGTGGCTGGGAGCGCTACACTGAGG
 TGGGAAGCGCAGTGGCCAGCACACCCTGCCTGCACTGTCCCGGACCACCACCCCTACTGACCCCAACTA
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 GAAGAACCGGGGACTACTACTAAAGGAAATCGTACACCGCCTGGCAAGAAGTCTCGGCTCATGAAGA
 CAGTGCAGACCATGAAGGGCCACAGTAACCTACCAAGACTGCTCAGCCCTGAGACCCGACATCCCGCATT
 CAGTTACGGCACCTATGTACCCTGGCCCCCTAAAGTCTGGTGTCCCTGTCTTTGTGCAGCCCTAGAT
 CTCTGTAACCCTGCCCGACTCTCTGCTGTGCGGAGGAGCTGCTGCTGTATGAGGGGAGGAACAAGACTT
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 CGTCTGAGAAATCCCCTCTACCTCCAGAGCGTGAAGCTACAGGAGGGCTCTTCAAGAACTTGAATTC
 TGTGTGCTGTACCTGGCAGAGAAGGCAGAGTGTATTCACTTTGGAGGCACACTCGCAGGAGCAGAAGA
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 GAAGAACTTACCCTTACGGCTCTCTCCAGCAGGAGATGGGGCCAGTCACTCCATCAGTGCCACCCAG
 GATAGAAGCTTTACCTCATCAGGACAGACCCTGATTGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR215152 representing NM_001081650
Red=Cloning site Green=Tags(s)

MNRFNGLCKVCSERRYRQITIRRGKDGFGFTICCDSPVRVQAVDSGGPAERAGLQQLDVLQLNERPVEH
 WKCVELAHEIRSCPSEIILLVWRVVPQIKPGPDGGVLRASCKSTHDLSPPNKREKNCTHGAPVRPEQR
 HSCHLVCDSSDGLLLGGWERYTEVGKRSQHTLPALSRTTTPDPNYIILAPLNPGSQLLRPVYQEDTIP
 EEPGTTTKGKSYTGLGKKSRMKTVQTMKGHSNYQDCSALRPHIPHSSYGYVTLAPKVLVFPVQPLD
 LCNPARTLLLSEELLYEGRNKTSQVTLFAYSDLLLFTKEEEPGRCDVLRNPLYLQSVKLVQEGSSEDLKF
 CVLYLAEKAECFLTEAHSQEQQKRVWCWLSENIAKQQQLAAPPTERKKLHPYGLSLQEMGPVTSISATQ
 DRSFTSSGQTLIG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

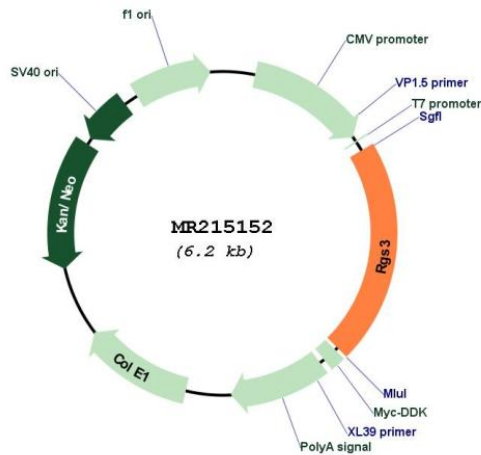
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001081650

ORF Size:	1299 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:	NM_001081650.2 , NP_001075119.1
RefSeq Size:	4000 bp
RefSeq ORF:	1302 bp
Locus ID:	50780
UniProt ID:	Q9DC04
Cytogenetics:	4 33.19 cM
MW:	48.8 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]