

Product datasheet for **MR215222**

Rgs3 (NM_134257) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rgs3 (NM_134257) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rgs3
Synonyms:	4930506N09Rik; C2pa; C2PA-RGS3; PDZ-RGS3; RGS3S
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR215222 representing NM_134257
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACCGCTTCAATGGGCTCTGCAAAGTGTGTTCAGAACGCCGCTACCGCAGATCACCATCCGGAGGG
 GCAAAGACGGCTTTGGCTTCACCATCTGCTGTGACTCTCCGGTCCGAGTCCAGGCTGTGGATTCTGGGGG
 CCCGGCAGAGAGGGCGGGACTGCAGCAGCTGGACACAGTCTACAACGAATGAGAGACCCGTGGAGCAC
 TGGAAATGTGTGGAGCTGGCACATGAGATCCGGAGCTGTCTAGCGAGATCATCTGCTCGTGTGGCGTG
 TGGTCCCCCAGATCAAGCCGGGGCCAGATGGCGGAGTCTTGGCGGGCCCTCTGCAAGTCCACACATGA
 CCTCTGTCAACCCCTAACAAAGAGGGAGAAGAAGTGTACTCATGGGGCCCCAGTTCGTCTGAGCAGCGC
 CACAGCTGCCACCTGGTGTGTGACAGCTCTGATGGTCTACTGCTTGGTGGCTGGGAGCGCTACACTGAGG
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 CAGTGCAGACCATGAAGGGCCACAGTAACCTACCAAGACTGCTCAGCCCTGAGACCCGACATCCCGCATTC
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 GTGAAGACATAGCAACCTGCCCTAAGCCCTCAAAGCCAGAAACCTCAACAAGCAAGGACTCCCCACC
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 TAACCAGAAGAAGATGAGTCCCCCGCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR215222 representing NM_134257
 Red=Cloning site Green=Tags(s)

MNRFNGLCKVCSERRYRQITIRRGKDGFGFTICCDSPVRVQAVDSGGPAERAGLQQLDVLQLNERPVEH
 WKCVELAHEIRSCPSEIILLVWRVVPQIKPGPDGGVLRASCKSTHDLSPPNKREKNCTHGAPVRPEQR
 HSCHLVCDSSDGLLLGGWERYTEVGKRSQHTLPALSRRTTPTDPNYIILAPLNPGSQLLRPVYQEDTIP
 EEPGTTTKGKSYTGLGKKSRMKTVQTMKGHSNYQDCSALRPHIPHSYGTIVTLAPKVLVFPVQPLD
 LCNPARTLLLSEELLYEGRNKTSQVTLFAYSDDLFTKEEPEGRCVDLNRNPLYLQSVKLEGSSEDLKF
 CVLYLAEKAECFLTEAHSQEQQKRVWCWLSENIAKQQQLAAPPTERKMFETEADKEMPLVEGKGPAGE
 EPAPSKNPSPGQELPPGQDLPPSKDPSQSQELPAGQDLPPSKDPSQSQELPAGQDLPPSKDPSQSQELPV
 GQDLPPRKDSSGQEAAPGPESPSSEDIATCPKPPQSPETSTSKDSPGQGSPTTELPSQCGLPAGQEST
 SQDPLLSQEPPIPESSASVQKRLPSQESPSLGLPEKDLAEQTISSGEPVATGAVLPASRPNFVIPE
 VRLDNAYSQLDGAHGSSGEDEDAEEGEEGEGEEDDDTSDDNYGDRSEAKRSSLIETGQGAEGGFSL
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 GHRKMSGTDLTECDEASRRKRSKNIKDMKNKLAIFRRRNESPGAQPASKTDKTKSFKPTSEEALKWSE
 SLEKLLHLYGLEVFQAFRLRTEFSEENLEFWLACEDFKKVKSSQSKMAAKAKKIFAEFIAIQACKEVNLD
 YTREHTKENLQSI TRGCFDLAQKRIFGLMEKDSYPRFLRSDLYLDLINQKKMSPPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

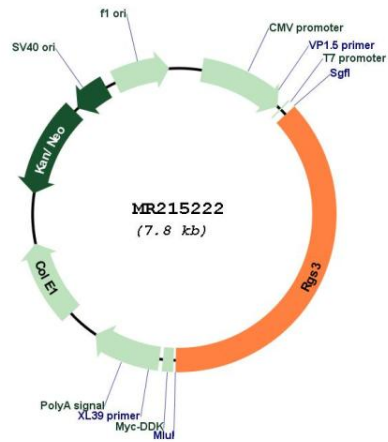


ACCN: NM_134257

ORF Size: 2898 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_134257.3 , NP_599018.3
RefSeq Size:	3751 bp
RefSeq ORF:	2901 bp
Locus ID:	50780
UniProt ID:	Q9DC04
Cytogenetics:	4 33.19 cM
MW:	106.2 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]

Product images:



Circular map for MR215222