

Product datasheet for **MG215222**

Rgs3 (NM_134257) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rgs3 (NM_134257) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rgs3
Synonyms:	4930506N09Rik; C2pa; C2PA-RGS3; PDZ-RGS3; RGS3S
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG215222 representing NM_134257
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACCGCTTCAATGGGCTCTGCAAAGTGTGTTCAGAACGCCGCTACCGCAGATCACCATCCGGAGGG
 GCAAAGACGGCTTTGGCTTCACCATCTGCTGTGACTCTCCGGTCCGAGTCCAGGCTGTGGATTCTGGGGG
 CCCGGCAGAGAGGGCGGGACTGCAGCAGCTGGACACAGTCTACAATGAATGAGAGACCCGTGGAGCAC
 TGGAAATGTGTGGAGCTGGCACATGAGATCCGGAGCTGTCTAGCGAGATCATCTGCTCGTGTGGCGTG
 TGGTCCCCCAGATCAAGCCGGGGCCAGATGGCGGAGTCTTGGCGGGCCCTCTGCAAGTCCACACATGA
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 CACAGCTGCCACCTGGTGTGTGACAGCTCTGATGGTCTACTGCTTGGTGGCTGGGAGCGCTACACTGAGG
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 CATCATCTGGCCCCACTGAATCTGGAAGCCAGTTGCTGCGGCCTGTGTACCAGGAGGATACAATCCCT
 GAAGAACCGGGGACTACTACTAAAGGAAATCGTACACCGGCCTGGGCAAGAAAGTCTCGGCTCATGAAGA
 CAGTGCAGACCATGAAGGGCCACAGTAACTACCAAGACTGCTCAGCCCTGAGACCCGACATCCCGCATTC
 CAGTTACGGCACCTATGTCAACCCTGGCCCTAAAGTCTGGTGTCCCTGTCTTTGTGACGCCCCCTAGAT
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 GTGAAGACATAGCAACCTGCCCTAAGCCCCCTCAAAGCCAGAAACCTCAACAAGCAAGGACTCCCACC
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 TACACACGAGAACACCAAGGAGAATCTGCAGAGCATACCCGAGGCTGCTTTGACTTGGCACAGAAAC
 GTATCTTTGGGCTCATGGAGAAGGACTTACCCTCGTTCCTCCGCTCTGACCTCTACCTGGACCTCAT
 TAACCAGAAGAAGATGAGTCCCCCGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG215222 representing NM_134257
 Red=Cloning site Green=Tags(s)

MNRFNGLCKVCSERRYRQITIRRGKDGFGFTICCDSPVRVQAVDSGGPAERAGLQQLDVLQLNERPVEH
 WKCVELAHEIRSCPSEIILLVWRVVPQIKPGPDGGVLRASCKSTHDLSPPNKREKNCTHGAPVRPEQR
 HSCHLVCDSSDGLLLGGWERYTEVGKRSQHTLPALSRITTPDPNYIILAPLNPGSQLLRPVYQEDTIP
 EEPGTTTKGKSYTGLGKKSRMKTQVTMKGHSNYQDCSALRPHIPHSYGYVTLAPKVLVFPVQPLD
 LCNPARTLLLSEELLYEGRNKTSQVTLFAYSDLLLFTKEEPEGRCVDLRNPLYLQSVKLQEGSSEDLKF
 CVLYLAEKAECFLTEAHSQEQQKRVWCWLSENIAKQQQLAAPPTERKMFETEADKEMPLVEGKPGAE
 EPAPSKNPPSPGQELPPGQDLPPSKDPPSPQELPAGQDLPPSKDPPSPQELPAGQDLPPSKDPPSPQELPV
 GQDLPPRDKSSGQEAAPGPESPSSEDIATCPKPPQSPETSTSKDPPGQSSPTTELPSQGLPAGQEST
 SQDPLLSQEPPIPESSASVQKRLPSQESPSLGLPEKDLAEQTISSGEPVATGAVLPASRPNFVIPE
 VRLDNAYSQLDGAHGGSSGEDEDAEEGEEGEEDEEDDSDDDNYGDRSEAKRSSLIETGQGAEGGFSL
 RVQNSLRRTTHSEGLLQESRGPCFASDTLHCSGEGATSTWAIIPSPRTLKKELGRNGGSMHHLSLFFT
 GHRKMSGTDLTECDEASRRKRSKNIADKMNKLAIFRRRNESPGAQPASKTDKTKSFKPTSEEALKWSE
 SLEKLLHLYGLEVFQAFRLRTEFSEENLEFWLACEDFKKVKSSQSKMAAKAKKIFAEFIAIQACKEVNLD
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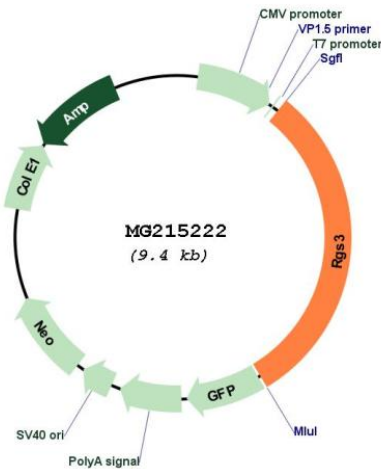
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


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:

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

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]