

Product datasheet for **MG215227**

Rgs3 (NM_019492) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rgs3 (NM_019492) 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)



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ORF Nucleotide Sequence:

>MG215227 representing NM_019492
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGAGGCCACATCAGGATGCTTCTTGTCCAAAAAGATGCCTGCACCCAGACTTACCCACCTAGGA
 GGAGGATCAGGCATGCCCAAGTGCAGGATGCAGGTCAACTGAAGCTGTCCATTGATGCCAGGATCGGGT
 TCTGCTGCTGCACATCATAGAAGCAAAGGCTGATGAGCAGGGAGCCTGGCATCTGCGATCCCTATGTG
 AAGTTTCTTTGATCCCAGAAGACAGCCAGCTCCCCTGCCAGACCACACAGATCATTCCAGACTGCCGAG
 ACCCAGCTTTCCACGAGCACTTCTTCTTCTGTCCAGAGGAGGGTGATCAGAAGCGTCTTCTGGTGAC
 AGTGTGGAACCGGGCCAGTGAGACCAGGCAGCATACGCTTATTGGCTGCATGAGCTTTGGGGTGAGGTCT
 CTCTTGACTCCGGACAAGGAGATCAGTGGCTGGTACTATCTGCTAGGGGAGGACCTGGGTCGGACCAAGC
 ACCTCAAGGTGGTAGGGCGCGCTCCAGCCCCTGAGAGACATGCTGTTGAGAATGCCAGGAGAGGGGGA
 CCCTGAGAACGGGAGAACTCCAGATCACCATCCGGAGGGGCAAGACGGCTTTGGCTTACCATCTGC
 TGTGACTCTCCGGTCCGAGTCCAGGCTGTGGATTCTGGGGGCCCGCAGAGAGGGCGGGACTGCAGCAGC
 TGGACACAGTGCTACAACGAATGAGAGACCCGTGGAGCACTGGAAATGTGTGGAGCTGGACATGAGAT
 CCGGAGCTGTCTAGCGAGATCATCTGCTCGTGTGGCGTGTGGTCCCCCAGATCAAGCCGGGGCCAGAT
 GGCGGAGTCTTGGCGGGCCCTCCTGCAAGTCCACACATGACCTCCTGTCAACCCCTAACAGAGGGGAGA
 AGAACTGTACTCATGGGGCCCCAGTTCTGCTGAGCAGCGCCACAGCTGCCACCTGGTGTGTGACAGCTC
 TGATGGTCTACTGCTTGGTGGCTGGGAGCGCTACACTGAGGTGGCAAGCGCAGTGGCCAGCACACCCTG
 CCTGCACTGTCCGGACCACCACCCTACTGACCCCACTACATCATCTGGCCCCACTGAATCCTGGAA
 GCCAGTTGCTGCGGCCTGTGTACCAGGAGGATACAATCCCTGAAGAACCGGGGACTACTAAAGGGAA
 ATCGTACACCGGCCTGGGCAAGAAGTCTCGGCTCATGAAGACAGTGCAGACCATGAAGGGCCACAGTAAC
 TACCAAGACTGCTCAGCCCTGAGACCGCACATCCCGCATTCCAGTTACGGCACCTATGTCACCCCTGGCCC
 CTAAGTCTGGTGTTCCTGTCTTGTGCAGCCCTAGATCTCTGTAACCCCTGCCCGGACTCTCTGCT
 GTCGGAGGAGCTGCTGCTGTATGAGGGGAGGAACAAGACTTCCAGGTGACACTGTTTGCCTACTCGGAC
 CTGCTGCTGTTCACTAAGGAGGAGGAGCCAGGCCGCTGCGACGCTCTGAGAAATCCCCTCTACCTCCAGA
 GCGTGAAGCTACAGGAGGCTCTCAGAAGACTGAAATCTGTGTGCTGTACCTGGCAGAGAAGGCAGA
 GTGCTTATTCACCTTTGGAGGCACACTCGCAGGAGCAGAAGAAGAGAGTGTGCTGGTGCCTGTCGGAGAAC
 ATCGCCAAGCAGCAACAGCTGGCCGCACCCTACAGAGAGGAAGAACTTACCCTTACGGCTCTCTCC
 AGCAGGAGATGGGGCCAGTCACCTCCATCAGTGCCACCCAGGATAGAAGCTTTACCTCATCAGGACAGAC
 CCTGATTGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG215227 representing NM_019492
 Red=Cloning site Green=Tags(s)

MERPHQDASLSKKDACTQTYPPRRRIRHAQVQDAGQLKLSIDAQDRVLLLHIEGKGLMSREPGICDPYV
 KVSLIPEDSQLPCQTTQIIPDCRDPAFHEHFFFPVPEEGDQKRLLVTVWNRASETROHTLIGCMSFGVRS
 LLTPDKEISGWYLLGEDLGRTKHLKVARRRLQPLRDMLLRMPGEGDPENGEKLQITIRRGKDGFGFTIC
 CDSPVRVQAVDSGGPAERAGLQQLDTVLQLNERPVEHWKCVELAHEIRSCPSEIILLVWRVVPQIKPGPD
 GVLRRASCKSTHDLSPPNKREKNCTHGAPVRPEQRHSCHLVCDSSDGLLLGGWERYTEVGRSGQHTL
 PALSRTTTPTDPNYIILAPLNPGSQLLRPVYQEDTIPEEPGTTTKGKSYTGLGKKSRLMKTVMKQHSN
 YQDCSALRPHIPHSSYGTIVTLAPKVLVFPVQPLDLNCPARTLLLSELLLLYEGRNKTSQVTLFAYS
 D LLLFTKEEPPGRCDVLRNPLYLQSVKLQEGSSEDLKFCVLYLAEKAELFTLEAHSQEQRKRVWCWLS
 EN IAKQQQLAAPPTERKKLHPYGSLLQEMGPVTSISATQDRSFTSSGQTLIG

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_019492

ORF Size: 1830 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_019492.3](#), [NP_062365.2](#)

RefSeq Size: 4704 bp

RefSeq ORF: 1833 bp

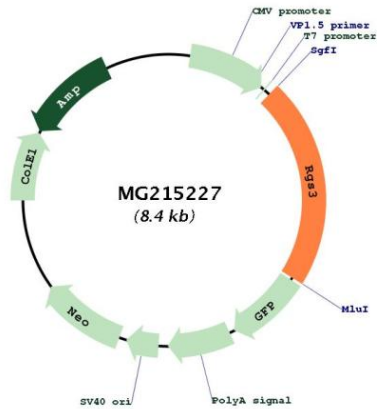
Locus ID: 50780

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]

Product images:



Circular map for MG215227