

## Product datasheet for **RG200924**

### **RAP1GDS1 (NM\_021159) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RAP1GDS1 (NM_021159) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RAP1GDS1
Synonyms:	GDS1; SmgGDS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG200924 representing NM\_021159  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCAGATAATCTCAGTGATACCTTGAAGAAGCTGAAGATAACAGCTGTTGACAAGACTGAGGATAGTT  
 TAGAAGGATGCTTGGATTGTCTGCTTCAAGCCCTGGCTCAAAATAATACGGAAACAAGTGAAAAATCCA  
 AGCAAGTGAATACTTACAGCTGTTTGAACCTCTGTTGACTCCACAGTCTTCTGCAAAGCCAAAGTAGCT  
 AACATCATAGCAGAAGTAGCCAAAAATGAGTTTATGCGAATTCATGTGTGGATGCTGGATTGATTTAC  
 CACTGGTGCAGCTGCTAAATAGCAAAGACCAGGAAGTGTCTTCAAACGGGCAGGGCTCTAGGAAACAT  
 ATGTTACGATAGCCATGAGGGCAGAAGTGCAGTTGACCAAGCAGGTGGTGCACAGATTGTAATTGACCAT  
 TTAAGGTCAGTGTGCAGTATAACAGATCCCGCAATGAGAAGCTTTGACTGTCTTTGTGGCATGCTGA  
 TGAAGTATAGCAATGAGAATGATTGCTTCAAGCTCAGCTTATCAATATGGGTGTTATTCCTACCTTAGT  
 GAAATTACTGGGCATCCACTGCCAAAATGCAGCTTTACAGAAATGTGTCTTGTTCATTGGTAATTTA  
 GCAGAAGTGTGAGTCAAGTAAAGAACAGTTTGCCAGTACAAACATTGCTGAAGAGCTAGTAAAACCTTCA  
 AGAAACAATAGAACATGATAAGAGAGAAATGATTTTTGAAGTCTTGTCTCCATTGGCAGAAAATGATGC  
 TATTAACACAGCTGGTTGAAGCAGGCCTAGTAGAGTGTCTACTAGAGATTGTTGAGCAAAAAGTGGAT  
 AGTGACAAAGAAGATGATTAAGTGCAGCTCAAACTGGTTCAGATCTCATGGTTTTACTTCTTGGAG  
 ATGAATCCATGCAGAAGTATTTGAAGGAGGAAAAGGTAGTGTATTTCAAAGGTTACTCTTGGATCCC  
 ATCAAATAACCACAGCTACAGCTTGTGGAGCATTGGCAATTGCAAATTTGCCAGAAATGATGCAAAAT  
 TGTATTCATATGGTAGACAATGGGATTGTAGAAAACTTATGGATTTACTGGACAGACATGAGAAGATG  
 GAAATGTAACAGTACAGCATGCAGCACTAAGTGCCTCAGAAACCTGGCCATTCCAGTTATAAAATAAGC  
 AAAGATGTTATCAGCTGGGGTACAGAGGCAGTTTTGAAATTTCTTAAATCTGAAATGCCTCCTGTTGAG  
 TTCAAACCTTCTGGGAACATTAAGAATGTTAATAGATGCACAAGAAGCTGCTGAACAATTGGGAAAGAATG  
 TTAAGTTAGTGGAGCGTTTTGGTGAATGGTGTGAAGCCAAAGTCATGCTGGTGTGATGGGGAGTCAAA  
 CAGACTGCTGTCTGCCCTTATACGACACAGTAAATCAAAGATGTAATTAACCATTGTGCAGAGTGGT  
 GGCATCAAGCATCTAGTTACCATGGCAACTAGTGAACATGTAATAATGCAGAATGAAGCTCTTGTGCTT  
 TGGCATTAAATAGCAGCTTGAATTTGGCACTGCTGAGAAAGATCTAGAAAGTCTAAACTGTACAGAT  
 TTTACATAGACTGCTAGCAGATGAGAGAAGTGTCTCTGAAATCAAATATAATTCCATGGTCTGATATGT  
 GCTCTTATGGGATCTGAATGTCTACACAAGGAAGTACAGGATTTGGCTTTCTAGATGTCGTATCCAAAC  
 TTCGAGTCATGAGAACAAAAGTGTGCCAGCAGGCCTCTCTCACAGAGCAGAGACTTACTGTGAAAAG  
 C

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG200924 representing NM\_021159  
 Red=Cloning site Green=Tags(s)

MADNLSDTLKKLKITAVDKTEDSLEGCLDCLLQALAQNNTETSEKIQASGILQLFATLLTPQSSCKAKVA  
 NIIAEVAKNEFMRIPCVDAGLISPLVQLLNSKDQEVLLQTGRALGNICYDSHEGRSAVDQAGGAQIVIDH  
 LRSLCSITDPANEKLLTVFCGMLMNYSNENDSLQAQLINMGVIPTLVKLLGIHCQNAALTEMCLVAFGNL  
 AELESSKEQFASTNIAEELVKLKKQIEHDKREMI FEVLAPLAENDA IKLQLVEAGLVECLLEIVQQKVD  
 SDKEDDITELKTGSDLMVLLLLGDESMQKLFEGGKGSVQRVLSWIPSNHQLQLAGALAIANFARNDAN  
 CIHMVDNGIVEKLMDLLDRHVEDGNVTVQHAALSALRNLAIPVINKAKMLSAGVTEAVLKFLKSEMPVQ  
 FKLLGTLRMLIDAQEAQELGKNVKLVERLVEWCEAKDHAGVMGESNRLLSALIRHKS KDVIKTI VQSG  
 GIKHLVTMATSEHVIMQNEALVALALIAALELGTAEKDL EAKLVQILHRLLADERSAPEIKYNSMWLIC  
 ALMGSECLHKEVQDLAFLDVVSKLRSHENKSVAAQASL TEQRLTVES

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_021159

**ORF Size:** 1821 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\\_021159.3](#), [NP\\_066982.2](#)

**RefSeq Size:** 2487 bp

**RefSeq ORF:** 1824 bp

**Locus ID:** 5910

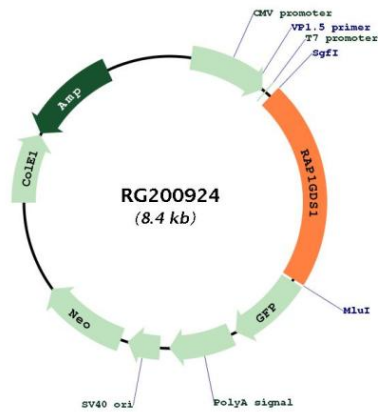
**UniProt ID:** [P52306](#)

**Cytogenetics:** 4q23

**Domains:** Armadillo\_seg

**Gene Summary:** The smg GDP dissociation stimulator (smgGDS) protein is a stimulatory GDP/GTP exchange protein with GTPase activity (Riess et al., 1993 [PubMed 8262526]).[supplied by OMIM, Feb 2010]

**Product images:**



Circular map for RG200924