

## Product datasheet for **RC212832**

### **RAP1GDS1 (NM\_001100428) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RAP1GDS1 (NM_001100428) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RAP1GDS1
Synonyms:	GDS1; SmgGDS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC212832 representing NM\_001100428  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCAGATAATCTCAGTGATACCTTGAAGAAGCTGAAGATAACAGCTGTTGACAAGACTGAGGATAGTT  
 TAGAAGGATGCTTGGATTGTCTGCTTCAAGCCCTGGCTCAAAAATAATACGAAACAAGTGAAAAATCCA  
 AGCAAGTGAATACTTCAGCTGTTTGAAGTCTGTTGACTCCACAGTCTTCTGCAAAGCCAAAAGTAGCT  
 AACATCATAGCAGAAGTAGCCAAAAATGAGTTTATGCGAATTCATGTGTGGATGCTGGATTGATTTAC  
 CACTGGTGCAGCTGCTAAATAGCAAAGACCAGGAAGTGTCTTCAAACGGGCAGGGCTCTAGGAAACAT  
 ATGTTACGATAGCCATTCGCTTCAAGCTCAGCTTATCAATATGGGTGTTATTCTACCTTAGTGAATTA  
 CTGGGCATCCACTGCCAAAATGCAGCTCTTACAGAAATGTGTCTTGTTCATTTGGTAATTTAGCAGAAC  
 TTGAGTCAAGTAAAGAACAGTTTCCAGTACAAACATTGCTGAAGAGCTAGTAAAACCTTCAAGAAACA  
 AATAGAACATGATAAGAGAGAAATGATTTTTGAAGTTCCTGCTCCATTGGCAGAAAATGATGCTATTA  
 CTACAGCTGGTTGAAGCAGGCCTAGTAGAGTGTCTACTAGAGATTGTTACGCAAAAAGTGGATAGTGACA  
 AAGAAGATGATATTACTGAGCTCAAACCTGGTTCAGATCTCATGGTTTTATTACTTCTTGGAGATGAATC  
 CATGCAGAAGTTATTTGAAGGAGGAAAAGGTAGTGTATTTCAAAGGGTACTCTCTTGGATCCCATCAAAT  
 AACCACCAGCTACAGCTTGTCTGGAGCATTGGCAATTCGCAATTTTCCAGAAAATGATGCAAAATGTATTC  
 ATATGGTAGACAATGGGATTGTAGAAAACTTATGGATTTACTGGACAGACATGTAGAAGATGAAAATGT  
 AACAGTACAGCATGCAGCACTAAGTGCCCTCAGAAACCTGGCCATTCCAGTTATAAATAAGCAAAGATG  
 TTATCAGCTGGGTACAGAGGCAGTTTGAATTTCTTAAATCTGAAATGCCTCCTGTTCAAGTTCAAAC  
 TTCTGGGAACATTAAGAATGTTAATAGATGCACAAGCAGAAGCTGCTGAACAATTGGGAAAGAATGTTAA  
 GTTAGTGGAGCGTTTGGTGAATGGTGTGAAGCCAAAGATCATGCTGGTGTGATGGGGAGTCAAACAGA  
 CTGCTGTCTGCCCTTATACGACACAGTAAATCAAAGATGTAATTAACCATTGTGCAGAGTGGTGGCA  
 TCAAGCATCTAGTTACCATGGCAACTAGTGAACATGTAATAATGCAGAATGAAGCTCTTGTGTCTTGGC  
 ATTAATAGCAGCTTTAGAATTGGGCACTGCTGAGAAAGATCTAGAAAGTCTAAACTTGTACAGATTTTA  
 CATAGACTGCTAGCAGATGAGAGAAGTGTCTGAAATCAAATAAATCCATGGTCTGATATGTGCTC  
 TTATGGGATCTGAATGTCTACACAAGGAAGTACAGGATTTGGCTTTTCTAGATGTCGATCCAAACTTCG  
 CAGTCATGAGAACAAAAGTGTGCCAGCAGGCCTCTCTACAGAGCAGAGACTTACTGTGAAAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC212832 representing NM\_001100428  
 Red=Cloning site Green=Tags(s)

MADNLSDTLKKLKITAVDKTEDSLEGCLDCLLQALAQNNETSEKIQASGILQLFASLLTPQSSCKAKVA  
 NIIAEVAKNEFMRI PCVDAGLISPLVQLLNSKDQEVLLQTGRALGNICYDSHSLQAQLINMGVIPTLVKL  
 LGIHCQNAALTEMCLVAFGNLAELESSKEQFASTNIAEELVKLFKKQIEHDKREMIFEVLA PLAENDAIK  
 LQLVEAGLVECLLEIVQQKVDSKEDDITELKTGSDLMVLLLLGDESMQKLFEGGKGSVFRVLSWIPSN  
 NHQLQLAGALAIANFARNDANCIHMVDNGIVEKLMDLLDRHVEDGNVTVQHAALSALRNLAIPVINKAKM  
 LSAGVTEAVLKFLKSEMPVQFKLLGTLRMLIDAQAEAAEQLGKNVKLVERLVEWCEAKDHAGVMGESNR  
 LLSALIRHSKSKDVIKTIVQSGGIKHLVTMATSEHVIMQNEALVALALIAALELGTAEKDLES AKLVQIL  
 HRLLADERSAPEIKYNSMVLICALMGSECLHKEVQDLAFLDVVSKLRSHENKSVAAQASL TEQRLTVES

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8067\\_c06.zip](https://cdn.origene.com/chromatograms/mk8067_c06.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001100428

**ORF Size:** 1677 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\\_001100428.2](#)

**RefSeq Size:** 3623 bp

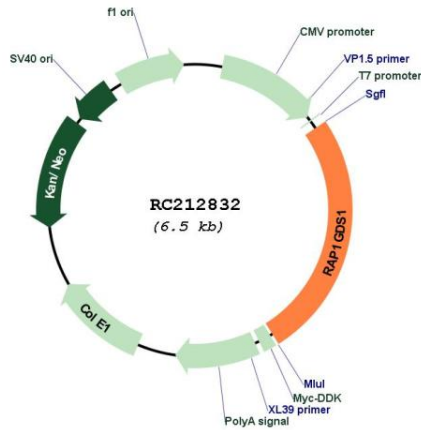
**RefSeq ORF:** 1680 bp

**Locus ID:** 5910

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

**Cytogenetics:** 4q23  
**MW:** 60.9 kDa  
**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 RC212832