

## Product datasheet for **RC212679**

### **RAP1GDS1 (NM\_001100426) Human Tagged ORF Clone**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                            |
| Product Name:             | RAP1GDS1 (NM_001100426) 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:**

>RC212679 representing NM\_001100426  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCAGATAATCTCAGTGATACCTTGAAGAAGCTGAAGATAACAGCTGTTGACAAGACTGAGGATAGTT  
 TAGAAGGATGCTTGGATTGTCTGCTTCAAGCCCTGGCTCAAAAATAATACGGAAACAAGTGAAAAATCCA  
 AGCAAGTGAATACTTACAGCTGTTTGAAGTCTGTTGACTCCACAGTCTTCTGCAAGCCAAAAGTAGCT  
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 GAAATTACTGGGCATCCACTGCCAAAATGCAGCTTTACAGAAAATGTGTCTTGTTCATTGGTAATTTA  
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 AGAAAACAATAGAACATGATAAGAGAGAAAATGATTTTTGAAGTCTTGTCTCCATTGGCAGAAAATGATGC  
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 CTTTGGCATTAAAGCAGCTTTAGAATTGGGCACTGCTGAGAAAAGATCTAGAAAAGTCTAAACTGTACA  
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 TGTGCTCTTATGGGATCTGAATGTCTACACAAGGAAGTACAGGATTTGGCTTTTCTAGATGTCGATCCA  
 AACTTCGACAGTCATGAGAACAAAAGTGTGCCAGCAGGCTCTCTCACAGAGCAGAGACTTACTGTGGA  
 AAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

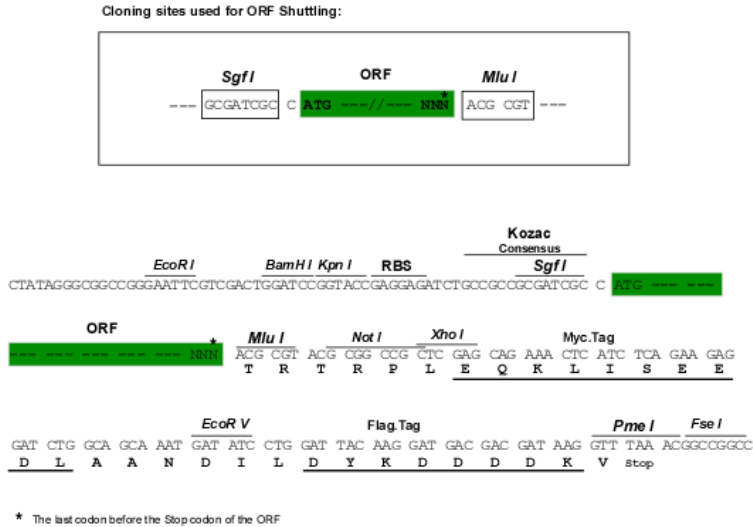
>RC212679 representing NM\_001100426  
 Red=Cloning site Green=Tags(s)

MADNLSDTLKKLKITAVDKTEDSLEGCLDCLLQALAQNNETSEKIQASGILQLFASLLTPQSSCKAKVA  
 NIIAEVAKNEFMRIPCVDAGLISPLVQLLNSKDQEVLLQTGRALGNICYDSHEGRSAVDQAGGAQIVIDH  
 LRSLCSITDPANEKLLTVFCGMLMNYSNENDSLQAQLINMGVIPTLVKLLGIHCQNAALTEMCLVAFGNL  
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 CIHMVNGIVEKLMDLLDRHVEDGNVTVQHAALSALRNLAIIPVINKAKMLSAGVTEAVLKFLKSEMPVQ  
 FKLLGTLRMLIDAQAEAAEQLGKNVKLVERLVEWCEAKDHAGVMGESNRLLSALIRHSSKDVIKTIVQS  
 GGIKHLVTMATSEHVIMQNEALVALALIAALELGTAEKDLKSAKLQILHRLADERSAPEIKYNSMVL I  
 CALMGSECLHKEVQDLAFLDVVSKLRSHENKSVAAQASL TEQRLTVES

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001100426

ORF Size: 1824 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\\_001100426.2](#)

RefSeq Size: 3770 bp

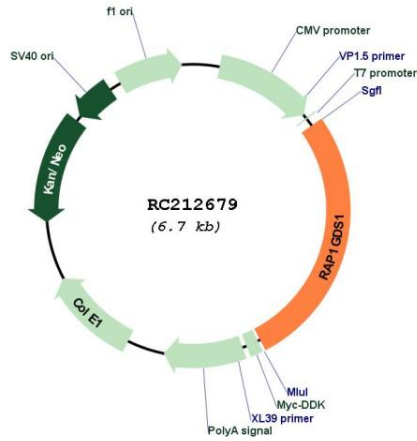
RefSeq ORF: 1827 bp

Locus ID: 5910

UniProt ID: [P52306](#)

**Cytogenetics:** 4q23  
**MW:** 66.4 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 RC212679