

Product datasheet for **RC217996**

RAP1GDS1 (NM_001100430) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAP1GDS1 (NM_001100430) 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:

>RC217996 representing NM_001100430
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGATAATCTCAGTGATACCTTGAAGAAGCTGAAGATAACAGCTGTTGACAAGACTGAGGATAGTT
 TAGAAGGATGCTTGGATTGTCTGCTTCAAGCCCTGGCTCAAAATAATACGGAAACAAGTAAAAAATCCA
 AGCAAGTGAATACTTACAGCTGTTTGAAGTCTGTTGACTCCACAGTCTTCTGCAAAGCCAAAGTAGCT
 AACATCATAGCAGAAGTAGCCAAAAATGAGTTTATGCGAATCCATGTGTGGATGCTGGATTGATTTAC
 CACTGGTGCAGCTGCTAAATAGCAAAGACCAGGAAGTGTCTTCAAACGGGCAGGGCTCTAGGAAACAT
 ATGTTACGATAGCCAGTCAAGTAAAGAACAGTTTGCCAGTACAAACATTGCTGAAGAGCTAGTAAAACTC
 TTCAAGAAACAAATAGAACATGATAAGAGAGAAATGATTTTTGAAGTTCTTGCTCCATTGGCAGAAAATG
 ATGCTATTAACACAGCTGGTTGAAGCAGGCCTAGTAGAGTGTCTACTAGAGATTGTTCCAGCAAAAAGT
 GGATAGTGACAAAGAAGATGATATTACTGAGCTCAAACTGGTTCAGATCTCATGGTTTTATTACTTCTT
 GGAGATGAATCCATGCAGAAGTTATTTGAAGGAGGAAAAGGTAGTGTATTCAAAGGGTACTCTCTTGGA
 TCCCATCAATAACCACCAGCTACAGCTTGTGGAGCATTGGCAATTGCAATTTTGCCAGAAATGATGC
 AAATTGTATTCATATGGTAGACAATGGGATTGTAGAAAACTTATGGATTTACTGGACAGACATGTAGAA
 GATGGAATGTAACAGTACAGCATGCAGCACTAAGTGCCTCAGAAAACCTGGCCATTCCAGTTATAAATA
 AAGCAAAGATGTTATCAGCTGGGGTACAGAGGCAGTTTTGAAATTTCTTAAATCTGAAATGCCTCCTGT
 TCAGTTCAAACCTCTGGGAACATTAAGAATGTTAATAGATGCACAAGCAGAAGCTGCTGAACAATTGGGA
 AAGAATGTTAAGTTAGTGGAGCGTTTGGTGAATGGTGTGAAGCCAAAGATCATGCTGGTGTGATGGGG
 AGTCAAACAGACTGCTGTCTGCCCTTATACGACACAGTAAATCAAAGATGTAATTAACCATTGTGCA
 GAGTGGTGGCATCAAGCATCTAGTTACCATGGCAACTAGTGAACATGTAATAATGCAGAATGAAGCTCTT
 GTTGCTTTGGCATTAAATAGCAGCTTTAGAATTGGGCACTGCTGAGAAAAGTCTAGAAAAGTCTAAACTTG
 TACAGATTTTACATAGACTGCTAGCAGATGAGAGAAGTGTCTCTGAAATCAAATATAATTCATGGTCTCT
 GATATGTGCTCTTATGGGATCTGAATGTCTACACAAGGAAGTACAGGATTTGGCTTTTCTAGATGTCGTA
 TCCAAACTTCGCAGTCATGAGAACAAAAGTGTGCCCAGCAGGCCTCTCTCACAGAGCAGAGACTTACTG
 TGGAAAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC217996 representing NM_001100430
 Red=Cloning site Green=Tags(s)

MADNLSDTLKKLKITAVDKTEDSLEGCLDCLLQALAQNNETSEKIQASGILQLFASLLTPQSSCKAKVA
 NIIAEVAKNEFMRIPCVDAGLISPLVQLLNSKDQEVLLQTGRALGNICYDSQSSKEQFASTNIAEELVKL
 FKKQIEHDKREMI FEVLAPLAENDA IKLQVEAGLVECLLEIVQKQVDSKEDDITELKTGSDLMVLLLL
 GDESMQKLFEGGKGSVFQRVLSWIPSNHQLQLAGALAIANFARNDANCIHMVDNGIVEKLMDDLDRHVE
 DGNVTVQHAALSALRNLAIPVINKAKMLSAGVTEAVLKFLKSEMPVQFKLLGTLRMLIDAQAEAAEQLG
 KNVKLVERLVEWCEAKDHAGVMGESNRLLSALIRHSKSKDVIKTIVQSGGIKHLVTMATSEHVIMQNEAL
 VALALIAALELGTAEKDLES AKLVQILHRL LADERSAPEIKYNSMVLICALMGSECLHKEVQDLAFLDVV
 SKLRSHENKSVAAQASL TEQRLTVES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8064_f06.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001100430

ORF Size: 1548 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_001100430.2](#)

RefSeq Size: 3494 bp

RefSeq ORF: 1551 bp

Locus ID: 5910

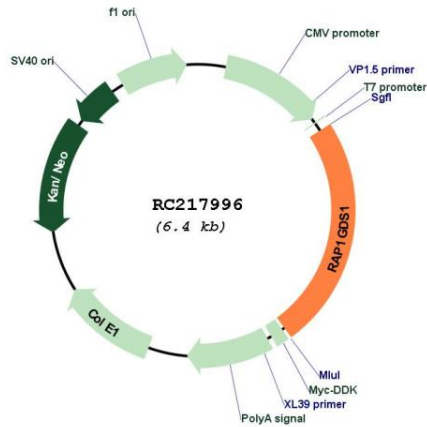
UniProt ID: [P52306](#)

Cytogenetics: 4q23

MW: 56.4 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 RC217996