

## Product datasheet for **SC316767**

### **RAP1GDS1 (NM\_001100430) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RAP1GDS1 (NM_001100430) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAP1GDS1
Synonyms:	GDS1; SmgGDS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC316767 representing NM\_001100430.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGCAGATAATCTCAGTGATACCTTGAAGAAGCTGAAGATAACAGCTGTTGACAAGACTGAGGATAGT
TTAGAAGGATGCTTGGATTGTCTGCTTCAAGCCCTGGCTCAAAATAATACGAAACAAGTAAAAAATC
CAAGCAAGTGAATACTTCAGCTGTTTGAAGCTGTTGACTCCACAGTCTTCTGCAAAGCCAAAGTA
GCTAACATCATAGCAGAAGTAGCCAAAAATGAGTTTATGCGAATTCATGTGTGGATGCTGGATTGATT
TCACCACTGGTGCAGCTGCTAAATAGCAAAGACCAGGAAGTGTCTTCAAACGGGCAGGGCTCTAGGA
AACATATGTTACGATAGCCAGTCAAGTAAAGAACAGTTTGCCAGTACAAACATTGCTGAAGAGCTAGTA
AAACTCTCAAGAAACAATAGAACATGATAAGAGAGAAATGATTTTTGAAGTCTTGTCTCCATTGGCA
GAAAATGATGCTATTAACACTACAGCTGGTTGAAGCAGGCCTAGTAGAGTGTCTACTAGAGATTGTTGAG
CAAAAAGTGGATAGTGACAAAGAAGATGATATTACTGAGCTCAAACTGGTTCAGATCTCATGGTTTTA
TTACTTCTGGAGATGAATCCATGCAGAAGTTATTTGAAGGAGGAAAAGGTAGTGTATTTCAAAGGGTA
CTCTCTGGATCCCATCAATAACCAACAGCTACAGCTTGTGGAGCATTGGCAATTGCAAATTTGCC
AGAAATGATGCAATTTGATTATATGGTAGACAAATGGGATTGTAGAAAACTTATGGATTTACTGGAC
AGACATGTAGAAGATGAAAATGTAAACAGTACAGCATGCAGCACTAAGTGCCTCAGAAAACCTGGCCATT
CCAGTTATAAATAAAGCAAAGATGTTATCAGCTGGGGTACAGAGGCAGTTTTGAAATTTCTTAAATCT
GAAATGCCTCCTGTTCACTTCAAACCTCTGGGAACATTAAGAATGTTAATAGATGCACAAGCAGAAGCT
GCTGAACAATGGGAAAGAATGTTAAGTTAGTGGAGCGTTTGGTGAATGGTGTGAAGCCAAAGATCAT
GCTGGTGTGATGGGGAGTCAAACAGACTGTCTGCTGCCCTTATACGACACAGTAAATCAAAGATGTA
ATTAACCATTGTGCAGAGTGGTGGCATCAAGCATCTAGTTACCATGGCACTAGTGAACATGTAATA
ATGCAGAATGAAGCTCTTGTGCTTGGCATTAAATAGCAGCTTTAGAATTGGGCACTGCTGAGAAAGAT
CTAGAAAGTGCTAAACTGTACAGATTTTACATAGACTGTAGCAGATGAGAGAAGTGTCTCTGAAATC
AAATATAATTCCATGGTCTGATATGTCTCTTATGGGATCTGAATGTCTACACAAGGAAGTACAGGAT
TTGGCTTTTCTAGATGTCGTATCCAAACTTCGCAGTCATGAGAACAAAAGTGTGCCAGCAGGCCTCT
CTCACAGAGCAGAGACTTACTGTGGAAGCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

**Restriction Sites:** SgfI-MluI

**Plasmid Map:** □

**ACCN:** NM\_001100430

**Insert Size:** 1551 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001100430.1](#)

**RefSeq Size:** 3494 bp

**RefSeq ORF:** 1551 bp

**Locus ID:** 5910

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

**Cytogenetics:** 4q23

**MW:** 56.5 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]

Transcript Variant: This variant (6) lacks two alternate in-frame exons in the mid-coding region, compared to variant 1, resulting in a shorter protein (isoform 6), compared to isoform 1.

Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.