

Product datasheet for **SC316792**

RAP1GDS1 (NM_001100427) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAP1GDS1 (NM_001100427) 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: >SC316792 representing NM_001100427.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGATAATCTCAGTGATACCTTGAAGAAGCTGAAGATAACAGCTGTTGACAAGACTGAGGATAGTTTA
GAAGGATGCTTGGATTGCTGCTTCAAGCCCTGGCTCAAATAATACGGAACAAGTAAAAAATCCAA
GCAAGTGGAAATACTTCAGCTGTTTGAAGTCTGTTGACTCCACAGTCTTCTGCAAAGCCAAAGTAGCT
AACATCATAGCAGAAGTAGCCAAAAATGAGTTTATGCGAATTCATGTGTGGATGCTGGATTGATTTCA
CCACTGGTGCAGCTGCTAAATAGCAAAGACCAGGAAGTCTGCTTCAAACGGGCAGGGCTCTAGGAAAC
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CATTTAAGGTCAGTGTGCAGTATAACAGATCCCAGCAATGAGAAGCTCTTGACTGTCTTTTGTGGCATG
CTGATGAACTATAGCAATGAGAATGATTCGCTTCAAGCTCAGCTTATCAATATGGGTGTTATTCTACC
TTAGTGAAATTACTGGGCATCCACTGCCAAAATGCAGCTTACAGAAAATGTGCTTGTTCATTGGT
AATTTAGCAGAATTGAGTCAAGTAAAGAACAGTTTGCCAGTACAACATTGCTGAAGAGCTAGTAAAA
CTCTTCAAAGAAACAAATAGAACATGATAAGAGAGAAATGATTTTTGAAGTCTTGCTCCATTGGCAGAA
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AAAGTGGATAGTGACAAAGAAGATGATTTACTGAGCTCAAACCTGGTTCAGATCTCATGTTTTATTA
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AATGATGCAAATGTATTCATATGGTAGACAATGGGATTGTAGAAAACTTATGGATTTACTGGACAGA
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GCTTTTCTAGATGTCGTATCCAACTTCGCAGTCATGAGAACAAAAGTGTGCCAGCAGGCCTCTCTC
ACAGAGCAGAGACTTACTGTGAAAGCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_001100427

Insert Size: 1824 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_001100427.1](#)

RefSeq Size: 3767 bp

RefSeq ORF: 1824 bp

Locus ID: 5910

UniProt ID: [P52306](#)

Cytogenetics: 4q23

MW: 66.3 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 (3) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1, resulting in a shorter protein (isoform 3), 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.