

Product datasheet for **SC108060**

RAP1GDS1 (NM_021159) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAP1GDS1 (NM_021159) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAP1GDS1
Synonyms:	GDS1; SmgGDS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_021159, the custom clone sequence may differ by one or more nucleotides

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ATGGCAGATAATCTCAGTGATACCTTGAAGAAGCTGAAGATAACAGCTGTTGACAAGACTGAGGATAGTT
TAGAAGGATGCTTGGATTGTCTGCTTCAAGCCCTGGCTCAAAATAATACGAAACAAGTAAAAAATCCA
AGCAAGTGAATACTTCAAGCTGTTTGAAGTCTGTTGACTCCACAGTCTTCTGCAAAGCCAAAGTAGCT
AACATCATAGCAGAAGTAGCCAAAAATGAGTTTATGCGAATTCATGTGTGGATGCTGGATTGATTCAC
CACTGGTGCAGCTGCTAAATAGCAAAGACCAGGAAGTGTGCTTCAAACGGGCAGGGCTCTAGGAAACAT
ATGTTACGATAGCCATGAGGGCAGAAGTGCAGTTGACCAAGCAGGTGGTGCACAGATTGTAATTGACCAT
TTAAGGTCAGTGTGAGTATAACAGATCCCGCCAATGAGAAGCTTTGACTGTCTTTTGTGGCATGCTGA
TGAAGTATAGCAATGAGAATGATTCGTTCAAGCTCAGCTTATCAATATGGGTGTTATTCTACCTTAGT
GAAATTACTGGGCATCCACTGCCAAAATGCAGCTTTACAGAAAATGTGTCTTGTTCATTGGTAATTTA
GCAGAAGTGGTCAAGTAAAGAACAGTTTGCAGTACAAACATTGCTGAAGAGCTAGTAAAACCTTTCA
AGAAACAATAGAACATGATAAGAGAGAAAATGATTTTTGAAGTCTTGTCCATTGGCAGAAAATGATGC
TATTAACACTACAGCTGGTTGAAGCAGGCCCTAGTAGAGTGTCTACTAGAGATTGTTGAGCAAAAAGTGGAT
AGTGACAAAAGAAGATGATTAATCTGAGCTCAAAACTGGTTCAGATCTCATGGTTTTATTACTTCTGGAG
ATGAATCCATGCAGAAGTATTTGAAGGAGGAAAAGGTAGTGTATTTCAAAGGGTACTCTCTGGATCCC
ATCAAAATAACCACCAGCTACAGCTTGTGGAGCATTGGCAATTGCAAAATTTGCCAGAAATGATGCAAAAT
TGATTCATATGGTAGACAATGGGATTGTAGAAAACTTATGGATTTACTGGACAGACATGTAGAAGATG
GAAATGTAAACAGTACAGCATGCAGCACTAAGTGCCTCAGAAAACCTGGCCATTCCAGTTATAAATAAAGC
AAAGATGTTATCAGCTGGGGTACAGAGGCAGTTTTGAAATTTCTTAAATCTGAAATGCCTCTGTTTCAG
TTCAAACCTCTGGGAACATTAAGAAATGTTAATAGATGCACAAGAAGCTGCTGAACAATGGGAAAGATG
TTAAGTTAGTGGAGCGTTTGGTGGAAATGGTGTGAAGCCAAAGATCATGCTGGTGTGATGGGGAGTCAAA
CAGACTGCTGTCTGCCCTTATACGACACAGTAAATCAAAAGATGTAATTAACCATTGTGCAGAGTGGT
GGCATCAAGCATCTAGTTACCATGGCAACTAGTGAACATGTAATAATGCAGAATGAAGCTCTTGTGCTT
TGGCATTAAATAGCAGCTTTAGAATTGGGCACTGCTGAGAAAGTCTAGAAAGTGTAAACTGTACAGAT
TTTACATAGACTGCTAGCAGATGAGAGAAGTGTCTCTGAAATCAAATAAATCCATGGTCTGATATGT
GCTCTTATGGGATCTGAATGTCTACACAAGGAAGTACAGGATTTGGCTTTTCTAGATGTCGTATCCAAAC
TTCGCAGTCATGAGAACAAAAGTGTGCCAGCAGGCCCTCTCACAGAGCAGAGACTTACTGTGGAAG
CTGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_021159 unedited

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AGAATTTTGTAAACGAACCTCACTATAGGGCGGCCGGAATTCGCACGAGGGAGAGACGG
AGGTAGAGGGAGGACACAGAGCCGCGCCGCCACCACAGACCTTCGCCTCGCCCCGCC
GGTTCTCACCCCTCGGGGAGCAACATGGATAATCTCAGTGATACCTTGAAGAAGCTGAAG
ATAACAGCTGTTGACAAGACTGAGGATAGTTTAGAAGGATGCTTGGATTGTCTGCTTCAA
GCCCTGGCTCAAAATAATACGAAACAAGTAAAAAATCCAAGCAAGTGAATACTTCAG
CTGTTTGAAGTCTGTTGACTCCACAGTCTTCTGCAAAGCCAAAGTAGCTAACATCATA
GCAGAAGTAGCCAAAAATGAGTTTATGCGAATTCATGTGTGGATGCTGGATTGATTTCA
CCACTGGTGCAGCTGCTAAATAGCAAAGACCAGGAAGTGTGCTTCAAACGGGCAGGGCT
CTAGGAAACATATGTTACGATAGCCATGAGGGCAGAAGTGCAGTTGACCAAGCAGGTGGT
GCACAGATTGTAATTGACATTTAAGGTCAGTGTGAGTATAACAGATCCCGCCAATGAG
AAGCTCTTACTGTCTTTTGTGGCATGCTGATGAACTATAGCAATGAGAATGATTCGCTT
CAAGCTCAGCTTATCAATATGGGTGTTATTCCTACCTTAGTAAAATTAAGGGATCCAC
TGCCAAAATGCAGCTCTTACAGAATGTGTCTTGTTCATTGGTAATTTAGCAGAAGTGG
AGTCAAGTAAAGAACAGTTTGCAGTACAAACATTGCTGAAGAGCTAGTAAAACCTTTCA
GAAACAATAGACATGATAGAGAGAATGATTTTTGAAGTCTTGTCTATTGCAGAATGAGCT
ATAACTACACTGTTGAGCAGCTATTAATGTCTTANAATGTGCAAGAG
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_021159 unedited GGTGGCNGACAAAGGCCAATTTTTANNTAACTNCTAGGGTACCATGGGATTTGACATCAG TAGGAAAGACTATTGAATAAGCAGCCATACAACTTTTTTGGTCACTGTGCTTCCCAAGCA CCAAAAATGGAGCTATTTTTCCAATTCAGTTTCATCTTTAATAAGCTAGACAGATCCTG CTGCATTCTTTGTTTCTAGTTTACCAGTACATCATTATGTAGTTTACTGCATGTGTGGAG CAAGTCATTATGTAGTACCAAGTTTACATCATCATAGGACTACAACATGCACATTCTACT TAATGTATCTCAAGCCACAGGAATACAAGATAACGGTTATGGGTGGAGACTTGCCTTTGA CAAAGTCATGATCACACTAACTATAGGTTTAGAAATCTTATTAGGGAGGTACCTACAGCG GGTCTTNAATTGGTATTATAACCTNACATGCGTTGCCACGTGGTATGGTTTTTAAATGAC ACCGCCAGANCCCTTTGCTCGTTTGACAGTAGGGGACATTTTTAGGGCTTTTGCTTTTT TTNCGCCACTATCCTTTTCTTTACAGATCCCCTTCGCNTTGTNAAAGGCCTGTGAGC ACCATTATTGCCTTCCAGCTGTGTCTTTTTATCCCGTCTTCCCGNCCTTTTCTTT TTTTTATCATTGTGCCACCCTTCTATTCTAATGACNATTACTGCAACCTCCTTCG ATTTGTTCTTCGAGACCCTCTCCTTATACATCTANCGGCTCATTCTTATTCCCACNC ACCGACCTCAATACCGCCGCTCAACGCCCTACAACCAANCNCGACGCGCCNCTATTTTG TGAGACCGTATTTCTTCTTTTCTCAGCATCTCCCCCGGAGATTCACCATAAAATATAT NATCGGCACGTCGACGATTCTTACACCTATGTGCGACCGCCCNCTTTCGATTATTAC TACGCTAGTTTTATACCACACCATTTTCGACGCACCCT
Restriction Sites:	NotI-NotI
ACCN:	NM_021159
Insert Size:	3050 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).
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:	<ol style="list-style-type: none"> 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:	<u>NM_021159.3, NP_066982.2</u>
RefSeq Size:	2487 bp
RefSeq ORF:	1824 bp
Locus ID:	5910
UniProt ID:	<u>P52306</u>
Cytogenetics:	4q23
Domains:	Armadillo_seg

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 (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1, resulting in a shorter protein (isoform 2), 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.