

Product datasheet for **RG212832**

RAP1GDS1 (NM_001100428) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAP1GDS1 (NM_001100428) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RAP1GDS1
Synonyms:	GDS1; SmgGDS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG212832 representing NM_001100428
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAGATAATCTCAGTGATACCTTGAAGAAGCTGAAGATAACAGCTGTTGACAAGACTGAGGATAGTT
 TAGAAGGATGCTTGGATTGTCTGCTTCAAGCCCTGGCTCAAAAATAATACGGAAACAAGTAAAAATCCA
 AGCAAGTGAATACTTCAGCTGTTTGAAGTCTGTTGACTCCACAGTCTTCTGCAAAGCCAAAGTAGCT
 AACATCATAGCAGAAGTAGCCAAAAATGAGTTTATGCGAATTCATGTGTGGATGCTGGATTGATTTAC
 CACTGGTGCAGCTGCTAAATAGCAAAGACCAGGAAGTGTCTTCAAACGGGCAGGGCTCTAGGAAACAT
 ATGTTACGATAGCCATTCGCTTCAAGCTCAGCTTATCAATATGGGTGTTATTCTACCTTAGTGAATTA
 CTGGGCATCCACTGCCAAAATGCAGCTCTACAGAAATGTGTCTTGTTCATTTGGTAATTTAGCAGAAC
 TTGAGTCAAGTAAAGAACAGTTTCCAGTACAAACATTGCTGAAGAGCTAGTAAAACCTTCAAGAAACA
 AATAGAACATGATAAGAGAGAAATGATTTTTGAAGTTCTTGTCTCCATTGGCAGAAAATGATGCTATTA
 CTACAGCTGGTTGAAGCAGGCCTAGTAGAGTGTCTACTAGAGATTGTTACGAAAAAGTGGATAGTGACA
 AAGAAGATGATATTACTGAGCTCAAACCTGGTTCAGATCTCATGGTTTTATTACTTCTTGGAGATGAATC
 CATGCAGAAGTTATTTGAAGGAGGAAAAGGTAGTGTATTTCAAAGGGTACTCTCTTGGATCCCATCAAAT
 AACCACCAGCTACAGCTTGTCTGGAGCATTGGCAATTGCAAATTTTCCAGAAAATGATGCAAATTTGATTC
 ATATGGTAGACAATGGGATTGTAGAAAACTTATGGATTTACTGGACAGACATGTAGAAGATGAAAATGT
 AACAGTACAGCATGCAGCACTAAGTGCCCTCAGAAACCTGGCCATTCCAGTTATAAATAAGCAAAGATG
 TTATCAGCTGGGTACACAGAGGCAGTTTGAATTTCTTAAATCTGAAATGCCTCCTGTTGAGTTCAAAC
 TTCTGGGAACATTAAGAATGTTAATAGATGCACAAGCAGAAGCTGCTGAACAATTGGGAAGAATGTTAA
 GTTAGTGGAGCGTTTGGTGAATGGTGTGAAGCCAAAGATCATGCTGGTGTGATGGGGGAGTCAAACAGA
 CTGCTGTCTGCCCTTATACGACACAGTAAATCAAAGATGTAATTAACCATTGTGCAGAGTGGTGGCA
 TCAAGCATCTAGTTACCATGGCAACTAGTGAACATGTAATAATGCAGAATGAAGCTCTTGTGTCTTGGC
 ATTAATAGCAGCTTTAGAATTGGGCACTGCTGAGAAAAGTCTAGAAAAGTCTAAACTTGTACAGATTTTA
 CATAGACTGCTAGCAGATGAGAGAAGTGTCTGAAATCAAATATAATCCATGGTCTGATATGTGCTC
 TTATGGGATCTGAATGTCTACACAAGGAAGTACAGGATTTGGCTTTTCTAGATGTCGATCCAAACTCG
 CAGTCATGAGAACAAAAGTGTGCCAGCAGGCCTCTCTACAGAGCAGAGACTTACTGTGAAAAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG212832 representing NM_001100428
 Red=Cloning site Green=Tags(s)

MADNLSDTLKKLKITAVDKTEDSLEGCLDCLLQALAQNNETSEKIQASGILQLFASLLTPQSSCKAKVA
 NIIAEVAKNEFMRIPCVDAGLISPLVQLLNSKDQEVLLQTGRALGNICYDSHSLQAQLINMGVIPTLVKL
 LGIHCQNAALTEMCLVAFGNLAELESSKEQFASTNIAEELVKLFKKQIEHDKREMI FEVLAPLAENDAIK
 LQLVEAGLVECLLEIVQQKVDSDKEDDITELKTGSDLMVLLLLGDESMQKLFEGGKGSVFRVLSWIPSN
 NHQLQLAGALAIANFARNDANCIHMDNGIVEKLMDDLDRHVEDGNVTVQHAALSALRNLAIPVINKAKM
 LSAGVTEAVLKFLKSEMPVQFKLLGTLRMLIDAQAEAAEQLGKNVKLVERLVEWCEAKDHAGVMGESNR
 LLSALIRHSKSKDVIKTIVQSGGIKHLVTMATSEHVIMQNEALVALALIAALELGTAEKDLES AKLVQIL
 HRLADERSAPEIKYNSMVLICALMGSECLHKEVQDLAFLDVVSKLRSHENKSVAQASL TEQRLTVES

TRTRPLE - GFP Tag - V

Restriction Sites:

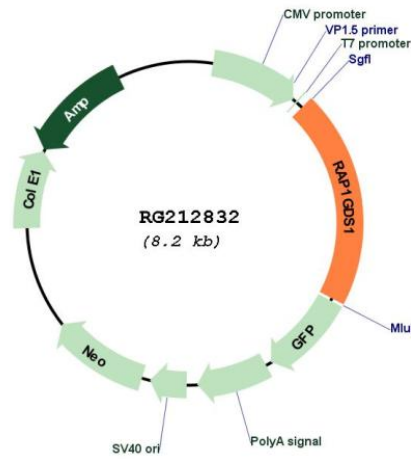
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_001100428
ORF Size:	1677 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:	<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:	NM_001100428.2
RefSeq Size:	3623 bp
RefSeq ORF:	1680 bp
Locus ID:	5910
UniProt ID:	P52306
Cytogenetics:	4q23
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]