

Product datasheet for RC219258

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

BRG1 (SMARCA4) (NM_003072) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: BRG1 (SMARCA4) (NM_003072) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: BRG1

Synonyms: BAF190; BAF190A; BRG1; CSS4; hSNF2b; MRD16; RTPS2; SNF2; SNF2-beta; SNF2L4; SNF2LB;

SWI2

Mammalian Cell

Selection:

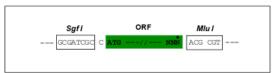
Neomycin

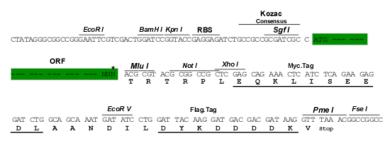
Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

Restriction Sites: Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_003072 **ORF Size:** 4950 bp



BRG1 (SMARCA4) (NM_003072) Human Tagged ORF Clone - RC219258

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: <u>NM 003072.5</u>

 RefSeq Size:
 5681 bp

 RefSeq ORF:
 4944 bp

 Locus ID:
 6597

 UniProt ID:
 P51532

Cytogenetics: 19p13.2

Domains: SNF2_N, DEAD, BROMO, helicase_C, HSA, BRK

Protein Families: Druggable Genome, Transcription Factors

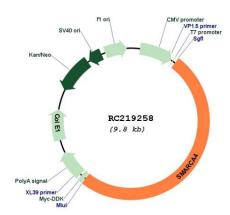
MW: 184.5 kDa

Gene Summary: The protein encoded by this gene is a member of the SWI/SNF family of proteins and is

similar to the brahma protein of Drosophila. Members of this family have helicase and ATPase activities and are thought to regulate transcription of certain genes by altering the chromatin structure around those genes. The encoded protein is part of the large ATP-dependent chromatin remodeling complex SNF/SWI, which is required for transcriptional activation of genes normally repressed by chromatin. In addition, this protein can bind BRCA1, as well as regulate the expression of the tumorigenic protein CD44. Mutations in this gene cause rhabdoid tumor predisposition syndrome type 2. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2012]



Product images:



Circular map for RC219258