

Resource Summary Report

Generated by [NIF](#) on Jul 31, 2026

pCMV5 BRGI-Flag

RRID:Addgene_19143

Type: Plasmid

Proper Citation

RRID:Addgene_19143

Plasmid Information

URL: <http://www.addgene.org/19143>

Proper Citation: RRID:Addgene_19143

Insert Name: SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:18003620](#)

Vector Backbone Description: Backbone Size:4657; Vector Backbone:pCMV5; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: human BRG1 cDNA from pFASTBAC-BRG1 (Kingston's lab). Please note this contains an S746L mutation, which has no functional consequence.

Plasmid Name: pCMV5 BRGI-Flag

Record Creation Time: 20220422T222044+0000

Record Last Update: 20260725T074406+0000

Ratings and Alerts

No rating or validation information has been found for pCMV5 BRGI-Flag.

No alerts have been found for pCMV5 BRGI-Flag.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 11 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

Nam HJ, et al. (2025) Autophagy induction enhances homologous recombination-associated CRISPR-Cas9 gene editing. *Nucleic acids research*, 53(7).

Pointeau O, et al. (2025) HSP110 Regulates the Assembly of the SWI/SNF Complex. *Cells*, 14(11).

Sandhu PK, et al. (2025) RNA helicases, DDX5 and DDX17, facilitate lytic reactivation of gammaherpesviruses. *PLoS pathogens*, 21(4), e1013009.

Pradhan S, et al. (2024) Chromatin remodeler BRG1 recruits huntingtin to repair DNA double-strand breaks in neurons. *bioRxiv : the preprint server for biology*.

Shang XY, et al. (2021) ARID1A deficiency weakens BRG1-RAD21 interaction that jeopardizes chromatin compactness and drives liver cancer cell metastasis. *Cell death & disease*, 12(11), 990.

Asiaban JN, et al. (2020) Cell-Based Ligand Discovery for the ENL YEATS Domain. *ACS chemical biology*, 15(4), 895.

Huang LY, et al. (2018) SCFFBW7-mediated degradation of Brg1 suppresses gastric cancer metastasis. *Nature communications*, 9(1), 3569.

Zhang H, et al. (2018) Targeting CDK9 Reactivates Epigenetically Silenced Genes in Cancer. *Cell*, 175(5), 1244.

Wu T, et al. (2018) Brd4's Bromodomains Mediate Histone H3 Acetylation and Chromatin Remodeling in Pluripotent Cells through P300 and Brg1. *Cell reports*, 25(7), 1756.

Pchelintsev NA, et al. (2013) Placing the HIRA histone chaperone complex in the chromatin landscape. *Cell reports*, 3(4), 1012.

Shpargel KB, et al. (2012) UTX and UTY demonstrate histone demethylase-independent function in mouse embryonic development. *PLoS genetics*, 8(9), e1002964.