

Resource Summary Report

Generated by [NIF](#) on Sep 3, 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: 20260902T043342+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 12 mentions in open access literature.

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

Ratovitski T, et al. (2026) Huntingtin (HTT) interactome in regulation of DNA repair/remodeling and RNA processing pathways. Life science alliance, 9(6).

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.

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.

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

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.