

Resource Summary Report

Generated by [NIF](#) on Aug 5, 2026

pSpCas9(BB)-2A-GFP (PX458)

RRID:Addgene_48138

Type: Plasmid

Proper Citation

RRID:Addgene_48138

Plasmid Information

URL: <http://www.addgene.org/48138>

Proper Citation: RRID:Addgene_48138

Insert Name: hSpCas9

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:24157548](#)

Vector Backbone Description: Vector Backbone:PX458; Vector Types:Mammalian Expression, CRISPR; Bacterial Resistance:Ampicillin

Comments: For more information on Zhang Lab CRISPR Plasmids please refer to: <http://www.addgene.org/crispr/zhang/>.

Plasmid Name: pSpCas9(BB)-2A-GFP (PX458)

Record Creation Time: 20220422T222247+0000

Record Last Update: 20260801T081353+0000

Ratings and Alerts

No rating or validation information has been found for pSpCas9(BB)-2A-GFP (PX458).

No alerts have been found for pSpCas9(BB)-2A-GFP (PX458).

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 2302 mentions in open access literature.

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

Ortega R, et al. (2026) PARP1 and PARP2 are dispensable for DNA repair by microhomology-mediated end-joining at double-ended DSBs. *Nucleic acids research*, 54(1).

Yu S, et al. (2026) A CLOCK-targeting lncRNA induces trained immunity against tuberculosis. *Cell host & microbe*, 34(1), 68.

Li X, et al. (2025) Targeting TNFAIP2 with NIR-II CRISPR-Cas9 nanosystem to overcome cisplatin resistance in laryngeal cancer. *NPJ precision oncology*, 9(1), 263.

Lambert F, et al. (2025) Antibody-mediated TGF- β 1 activation for the treatment of diseases caused by deleterious T cell activity. *Cell reports*, 44(8), 116061.

Bell HW, et al. (2025) Removal of promoter CpG methylation by epigenome editing reverses HBG silencing. *Nature communications*, 16(1), 6919.

Pelea O, et al. (2025) Specific modulation of CRISPR transcriptional activators through RNA-sensing guide RNAs in mammalian cells and zebrafish embryos. *eLife*, 12.

Zhu Z, et al. (2025) Principles of cotranslational mitochondrial protein import. *Cell*.

Bryan E, et al. (2025) Nucleosomal asymmetry shapes histone mark binding and promotes poising at bivalent domains. *Molecular cell*, 85(3), 471.

Aboreden NG, et al. (2025) LDB1 establishes multi-enhancer networks to regulate gene expression. *Molecular cell*, 85(2), 376.

Vasan L, et al. (2025) Examining the NEUROG2 lineage and associated gene expression in human cortical organoids. *Development (Cambridge, England)*, 152(2).

Garcia-Guerra A, et al. (2025) Tissue-specific modulation of CRISPR activity by miRNA-sensing guide RNAs. *Nucleic acids research*, 53(2).

Garrigue A, et al. (2025) Human oncostatin M deficiency underlies an inherited severe bone marrow failure syndrome. *The Journal of clinical investigation*, 135(6).

Cifuentes C, et al. (2025) The R-RAS2 GTPase is a signaling hub in triple-negative breast cancer cell metabolism and metastatic behavior. *Journal of hematology & oncology*, 18(1), 41.

Guo D, et al. (2025) The ZBTB24-CDCA7-HELLS axis suppresses the totipotent 2C-like reprogramming by maintaining Dux methylation and repression. *Nucleic acids research*, 53(7).

Herbst M, et al. (2025) Cancer-cell-derived cGAMP limits the activity of tumor-associated CD8⁺ T cells. *Cell reports*, 44(4), 115510.

Yau W-L, et al. (2025) The ACBD3 protein coordinates ER-Golgi contacts to enable productive TBEV infection. *Journal of virology*, 99(5), e0222424.

Rühling M, et al. (2025) Identification of the *Staphylococcus aureus* endothelial cell surface interactome by proximity labeling. *mBio*, 16(5), e0365424.

Zhang Y, et al. (2025) Generation of stable Cas9-EGFP expressing human induced pluripotent stem cell lines based on SeLection by Essential-gene Exon Knock-in technology. *Stem cell research*, 85, 103710.

Kamath ND, et al. (2025) Comprehensive mutational characterization of the calcium-sensing STIM1 EF-hand reveals residues essential for structure and function. *bioRxiv : the preprint server for biology*.

Tachida Y, et al. (2025) Systematic empirical evaluation of individual base editing targets: Validating therapeutic targets in USH2A and comparison of methods. *Molecular therapy : the journal of the American Society of Gene Therapy*, 33(4), 1466.