

# Resource Summary Report

Generated by [RRID](#) on Aug 19, 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:** 20260815T081548+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 2375 mentions in open access literature.

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

Gumpert N, et al. (2026) Recurrent Immunogenic Neoantigens and Their Cognate T-cell Receptors in Treatment-Resistant Metastatic Prostate Cancer. *Cancer discovery*, 16(2), 250.

Adella A, et al. (2026) RRAGD p.(Ser76Leu) Variant Causes Dysregulated Expression of Muscle Development and Cytoskeleton Genes in Cardiomyocytes. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 40(12), e72070.

Ghoochani A, et al. (2026) Cell-type resolved protein atlas of brain lysosomes identifies SLC45A1-associated disease as a lysosomal disorder. *Cell*, 189(3), 765.

Sharma S, et al. (2026) MLC1 alteration in human iPSCs give rise to disease-like cellular vacuolation phenotype in the astrocyte lineage. *Orphanet journal of rare diseases*, 21(1).

Gelder KL, et al. (2026) CBP-IDRs regulate acetylation and gene expression. *Cell reports*, 45(3), 117109.

Bossowski JP, et al. (2026) The integrated stress response promotes immune evasion through lipocalin 2. *Nature*, 652(8112), 1329.

Garcia GR, et al. (2026) U2AF regulates the translation and localization of nuclear-encoded mitochondrial mRNAs. *Molecular cell*, 86(7), 1293.

Lee K, et al. (2026) Structures of dynamic interactors at native proteasomes by PhIX-MS and cryo-electron microscopy. *Molecular cell*.

Gao M, et al. (2026) Shaping Tumor Microenvironment by Amplifying the Complement Cascade for Improved Immune Response in Pancreatic Cancer Model. *Molecular cancer therapeutics*, 25(3), 469.

Fang X, et al. (2026) The Disordered Region of ASXL1 Acts as an Auto-Regulator Through Condensation. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 13(17), e10999.

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).

Zhu M, et al. (2026) Minimizing far-extending chromatin perturbation in genome editing preserves stem cell identity. *Cell stem cell*, 33(3), 470.

Stevens TA, et al. (2026) Structural evolution of the MTCH family of mitochondrial insertases. *bioRxiv : the preprint server for biology*.

Feng R, et al. (2026) Baicalin alleviates mastitis in dairy cows by targeting IL-17RA to inhibit IL-17 signaling pathway activation. *Journal of animal science and biotechnology*, 17(1).

Loureiro JR, et al. (2026) The insertion of an ATTTC repeat in an Alu element hyperactivates a neurodevelopmental enhancer in spinocerebellar ataxia type 37. *Cell reports*, 45(4), 117146.

Lu X, et al. (2026) Proteasome activity maintains cell-type-specific gene expression. *Cell reports*, 45(2), 116973.

Koulle A, et al. (2026) The chromatin remodeller CHD4 regulates transcription factor binding to both prevent activation of silent enhancers and maintain active regulatory elements. *eLife*, 14.

Wei J, et al. (2026) Multivalent 28S rRNA expansion segments enable reconstitution of multilayered nucleolar architecture. *Molecular cell*, 86(8), 1459.

Shin H, et al. (2026) ADAR1 regulates dsRNA formation in nuclear and mitochondrial transcripts through editing-dependent and -independent mechanisms. *Cell reports*, 45(3), 117026.

Balolia A, et al. (2026) Ascl1 promotes OPC specification across species and central nervous system regions and its gliogenic function is regulated by phosphorylation. *Developmental biology*, 536, 184.