

Resource Summary Report

Generated by [NIF](#) on Sep 7, 2026

pSpCas9n(BB)-2A-GFP (PX461)

RRID:Addgene_48140

Type: Plasmid

Proper Citation

RRID:Addgene_48140

Plasmid Information

URL: <http://www.addgene.org/48140>

Proper Citation: RRID:Addgene_48140

Insert Name: hSpCas9n

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:24157548](#)

Vector Backbone Description: Vector Backbone:PX461; 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: pSpCas9n(BB)-2A-GFP (PX461)

Relevant Mutation: Cas9 D10A nickase mutant

Record Creation Time: 20220422T222247+0000

Record Last Update: 20260905T075718+0000

Ratings and Alerts

No rating or validation information has been found for pSpCas9n(BB)-2A-GFP (PX461).

No alerts have been found for pSpCas9n(BB)-2A-GFP (PX461).

Data and Source Information

Usage and Citation Metrics

We found 168 mentions in open access literature.

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

Gong Y, et al. (2026) Neural cell state modulation by PARK2 and dopaminergic neuroprotection by small molecule Parkin agonism. bioRxiv : the preprint server for biology.

Watterson A, et al. (2026) CRISPR screens in the context of immune selection identify CHD1 and MAP3K7 as mediators of cancer immunotherapy resistance. Cell reports. Medicine, 7(1), 102565.

Lane KA, et al. (2025) PBRM1 directs PBAF to pericentromeres and protects centromere integrity. Nature communications, 16(1), 1980.

Gomes-Junior R, et al. (2025) Construction of a proximity labeling vector to identify protein-protein interactions in human stem cells. PLoS one, 20(5), e0324779.

Colomer-Boronat A, et al. (2025) DGCR8 haploinsufficiency leads to primate-specific RNA dysregulation and pluripotency defects. Nucleic acids research, 53(6).

Amusan OT, et al. (2025) RIPK1 is required for ZBP1-driven necroptosis in human cells. PLoS biology, 23(2), e3002845.

Quarto G, et al. (2025) Fine-tuning of gene expression through the Mettl3-Mettl14-Dnmt1 axis controls ESC differentiation. Cell, 188(4), 998.

Zabiegailov O, et al. (2025) Generation of a Double Reporter mES Cell Line to Simultaneously Trace the Generation of Retinal Progenitors and Photoreceptors. Cells, 14(4).

Hankinson J, et al. (2025) The Cap-proximal secondary structures of the 5'UTRs of parainfluenza virus 5 mRNAs specify differential sensitivity to type I interferon and IFIT1. The Journal of general virology, 106(3).

Gracie NP, et al. (2025) An RGD motif on SARS-CoV-2 Spike induces TGF- β signaling and downregulates interferon. Journal of virology, e0043525.

, et al. (2025) Loss of DAXX/ATRAX Protein Expression Results in Ischemia Resistance and Radiation Sensitivity in Pancreatic Neuroendocrine Tumor Cells and Is Associated with Improved Response to Trans-Arterial Radioembolization. Neuroendocrinology, 115(9), 730.

Mencacci NE, et al. (2025) Pathogenic variants in BORCS5 Cause a Spectrum of Neurodevelopmental and Neurodegenerative Disorders with Lysosomal Dysfunction. medRxiv : the preprint server for health sciences.

Xu Y, et al. (2025) DNA nicks in both leading and lagging strand templates can trigger break-induced replication. *Molecular cell*, 85(1), 91.

Fulcher LJ, et al. (2025) MDM2 functions as a timer reporting the length of mitosis. *Nature cell biology*, 27(2), 262.

Irmer B, et al. (2025) Syntenin Controls Extracellular Vesicle-Induced Tumour Migration by Regulating the Expression of Adhesion Proteins on Small Extracellular Vesicles. *Journal of extracellular vesicles*, 14(8), e70133.

Shi Z, et al. (2025) UGI relocation inside Cas9 reduces Cas9 dependent off target effects in cytosine base editors. *Scientific reports*, 15(1), 35518.

Harper NW, et al. (2025) Pol II degradation activates cell death independently from the loss of transcription. *bioRxiv : the preprint server for biology*.

El Boujnouni N, et al. (2025) Repeat length as a key determinant for disease severity and antisense oligonucleotide activity in myotonic dystrophy type 1. *Molecular therapy. Methods & clinical development*, 33(3), 101502.

Baghdadi M, et al. (2025) Functional characterisation of rare variants in genes encoding the MAPK/ERK signalling pathway identified in long-lived Leiden Longevity Study participants. *GeroScience*.

Pinto LM, et al. (2024) DAXX promotes centromeric stability independently of ATRX by preventing the accumulation of R-loop-induced DNA double-stranded breaks. *Nucleic acids research*, 52(3), 1136.