

Resource Summary Report

Generated by [NIF](#) on Aug 1, 2026

lentiCas9-Blast

RRID:Addgene_52962

Type: Plasmid

Proper Citation

RRID:Addgene_52962

Plasmid Information

URL: <http://www.addgene.org/52962>

Proper Citation: RRID:Addgene_52962

Insert Name: Cas9

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:25075903](#)

Vector Backbone Description: Backbone Size:10130; Vector Backbone:pFUGW; Vector Types:Mammalian Expression, Lentiviral, CRISPR; Bacterial Resistance:Ampicillin

Comments: Special note from the Zhang lab: We are constantly improving our CRISPR reagents. Please check <https://zlab.bio/> for the most up-to-date information.

Plasmid Name: lentiCas9-Blast

Record Creation Time: 20220422T222310+0000

Record Last Update: 20260801T081439+0000

Ratings and Alerts

No rating or validation information has been found for lentiCas9-Blast.

No alerts have been found for lentiCas9-Blast.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 953 mentions in open access literature.

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

Amelan A, et al. (2026) CRISPR knockout screens reveal genes and pathways essential for neuronal differentiation and implicate PEDS1 in neurodevelopment. *Nature neuroscience*.

Yuan F, et al. (2026) Glioblastoma stem cells resist cuproptosis with circadian variation of copper levels. *The Journal of clinical investigation*, 136(1).

Avinery L, et al. (2026) Hypoxic conditions confer chemoresistance to crizotinib but not to imatinib in chronic myeloid leukemia cells. *Hematology, transfusion and cell therapy*, 48(2), 106240.

Gambi G, et al. (2025) 3D chromatin hubs as regulatory units of identity and survival in human acute leukemia. *Molecular cell*, 85(1), 42.

Shen X, et al. (2025) Targeting pancreatic cancer glutamine dependency confers vulnerability to GPX4-dependent ferroptosis. *Cell reports. Medicine*, 6(2), 101928.

Wolf G, et al. (2025) The efflux pump ABCC1/MRP1 constitutively restricts PROTAC sensitivity in cancer cells. *Cell chemical biology*, 32(2), 291.

Mao N, et al. (2025) Uncoupling of Akt and mTOR signaling drives resistance to Akt inhibition in PTEN loss prostate cancers. *Science advances*, 11(6), eadq3802.

Khakurel A, et al. (2025) Acute GARP Depletion Disrupts Vesicle Transport, Leading to Severe Defects in Sorting, Secretion and O-Glycosylation. *Traffic (Copenhagen, Denmark)*, 26(1-3), e70003.

Azeroglu B, et al. (2025) Identification of modulators of the ALT pathway through a native FISH-based optical screen. *Cell reports*, 44(1), 115114.

Tian Y, et al. (2025) Epigenomic analysis identifies DTP subpopulation using HOPX to develop targeted therapy resistance in lung adenocarcinoma. *iScience*, 28(5), 112387.

Zirman A, et al. (2025) Pooled CRISPR screens identifies key regulators of bovine stem cell expansion for cultured meat. *Communications biology*, 8(1), 1313.

Oles AR, et al. (2025) MyoD is essential in rhabdomyosarcoma by promoting survival through differentiation and CYLD. *iScience*, 28(8), 113149.

Sansbury SE, et al. (2025) Pooled tagging and hydrophobic targeting of endogenous proteins for unbiased mapping of unfolded protein responses. *Molecular cell*, 85(9), 1868.

Teng H, et al. (2025) In vivo CRISPR activation screen identifies acyl-CoA-binding protein as a driver of bone metastasis. *Science translational medicine*, 17(799), eado7225.

Dayanc B, et al. (2025) Integrative multi-omics identifies AP-1 transcription factor as a targetable mediator of acquired osimertinib resistance in non-small cell lung cancer. *Cell death & disease*, 16(1), 414.

Hermann J, et al. (2025) mTORC1 cooperates with tRNA wobble modification to sustain the protein synthesis machinery. *Nature communications*, 16(1), 4201.

Fay EJ, et al. (2025) Evolutionary and functional analyses reveal a role for the RHIM in tuning RIPK3 activity across vertebrates. *eLife*, 13.

Dhungel BP, et al. (2025) An alternate receptor for adeno-associated viruses. *Cell*, 188(18), 4924.

Wang SE, et al. (2025) Mechanism of EHMT2-mediated genomic imprinting associated with Prader-Willi syndrome. *Nature communications*, 16(1), 6125.

Chang W, et al. (2025) Genome-wide CRISPR/Cas9 screening identifies PTGR2 as a potential therapeutic target for sunitinib resistance in clear cell renal cell carcinoma. *Scientific reports*, 15(1), 26263.