

Resource Summary Report

Generated by [RRID](#) on Aug 30, 2026

pX330S-2

RRID:Addgene_58778

Type: Plasmid

Proper Citation

RRID:Addgene_58778

Plasmid Information

URL: <http://www.addgene.org/58778>

Proper Citation: RRID:Addgene_58778

Insert Name: humanized S. pyogenes Cas9 nuclease

Organism: S. pyogenes

Bacterial Resistance: Spectinomycin

Defining Citation: [PMID:24954249](#)

Vector Backbone Description: Vector Backbone:pUC ori vector; Vector Types:Mammalian Expression, CRISPR; Bacterial Resistance:Spectinomycin

Plasmid Name: pX330S-2

Record Creation Time: 20220422T222340+0000

Record Last Update: 20260829T080752+0000

Ratings and Alerts

No rating or validation information has been found for pX330S-2.

No alerts have been found for pX330S-2.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 27 mentions in open access literature.

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

Park SB, et al. (2026) Human pluripotent stem cell engineering with CRISPR-Cas9 for Parkinson's disease. *Experimental & molecular medicine*, 58(4), 993.

Cacciatore R, et al. (2026) Endocytic Control of Cell-Autonomous and Non-Cell-Autonomous Functions of p53. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 13(30), e13765.

Takahashi T, et al. (2026) The acyl- and alkyl-glycerone phosphate reductase DHRS7 is involved in the production of distinct plasmalogen species from DHRS7B. *Journal of cell science*, 139(9).

Matsumoto A, et al. (2025) Polymerase-usage sequencing identifies initiation zones with less bias across S phase in mouse embryonic stem cells. *Journal of biochemistry*, 177(3), 213.

Di Meo F, et al. (2025) Developing SEMA4A-directed CAR T cells to overcome low BCMA antigen density in multiple myeloma. *Cancer cell*, 43(12), 2298.

Liu H, et al. (2024) Taurine promotes insulin synthesis by enhancing Isl-1 expression through miR-7a/RAF1/ERK1/2 pathway. *In vitro cellular & developmental biology. Animal*, 60(1), 23.

Kurashima K, et al. (2024) Embryonic stem cells maintain high origin activity and slow forks to coordinate replication with cell cycle progression. *EMBO reports*, 25(9), 3757.

G??tz V, et al. (2023) Ovulation is triggered by a cyclical modulation of gonadotropes into a hyperexcitable state. *Cell reports*, 42(6), 112543.

Gonnot F, et al. (2023) SERCA2 phosphorylation at serine 663 is a key regulator of Ca²⁺ homeostasis in heart diseases. *Nature communications*, 14(1), 3346.

Terron HM, et al. (2023) A Dual-Function "TRE-Lox" System for Genetic Deletion or Reversible, Titratable, and Near-Complete Downregulation of Cathepsin D. *International journal of molecular sciences*, 24(7).

Nargund AM, et al. (2022) Chromatin Rewiring by Mismatch Repair Protein MSH2 Alters Cell Adhesion Pathways and Sensitivity to BET Inhibition in Gastric Cancer. *Cancer research*, 82(14), 2538.

Morale MG, et al. (2022) TLR4 and SARM1 modulate survival and chemoresistance in an HPV-positive cervical cancer cell line. *Scientific reports*, 12(1), 6714.

Rakovic A, et al. (2022) Electrophysiological Properties of Induced Pluripotent Stem Cell-Derived Midbrain Dopaminergic Neurons Correlate With Expression of Tyrosine Hydroxylase. *Frontiers in cellular neuroscience*, 16, 817198.

Mach P, et al. (2022) Cohesin and CTCF control the dynamics of chromosome folding. *Nature genetics*, 54(12), 1907.

Chang KT, et al. (2022) Aberrant cyclin C nuclear release induces mitochondrial fragmentation and dysfunction in MED13L syndrome fibroblasts. *iScience*, 25(2), 103823.

Safari F, et al. (2021) Multiplex Genome Editing in Chinese Hamster Ovary Cell Line Using All-in-One and HITI CRISPR Technology. *Advanced pharmaceutical bulletin*, 11(2), 343.

Jubair L, et al. (2021) CRISPR/Cas9-loaded stealth liposomes effectively cleared established HPV16-driven tumours in syngeneic mice. *PloS one*, 16(1), e0223288.

Law AL, et al. (2021) Nance-Horan Syndrome-like 1 protein negatively regulates Scar/WAVE-Arp2/3 activity and inhibits lamellipodia stability and cell migration. *Nature communications*, 12(1), 5687.

Hayano Y, et al. (2021) IgSF11 homophilic adhesion proteins promote layer-specific synaptic assembly of the cortical interneuron subtype. *Science advances*, 7(29).

Fu Y, et al. (2020) STAT5 promotes accessibility and is required for BATF-mediated plasticity at the Il9 locus. *Nature communications*, 11(1), 4882.