

Resource Summary Report

Generated by [NIF](#) on Sep 10, 2026

pX260-U6-DR-BB-DR-Cbh-NLS-hSpCas9-NLS-H1-shorttracr-PGK-puro

RRID:Addgene_42229

Type: Plasmid

Proper Citation

RRID:Addgene_42229

Plasmid Information

URL: <http://www.addgene.org/42229>

Proper Citation: RRID:Addgene_42229

Insert Name: humanized S. pyogenes Cas9

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:23287718](#)

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

Comments: Note, Addgene's quality control sequencing has found a few discrepancies with the depositor's full sequence. The depositing lab is aware of these discrepancies, and they are not thought to affect plasmid function. For more information on Zhang Lab CRISPR Plasmids please refer to: <http://www.addgene.org/crispr/zhang/>

Plasmid Name: pX260-U6-DR-BB-DR-Cbh-NLS-hSpCas9-NLS-H1-shorttracr-PGK-puro

Record Creation Time: 20220422T222218+0000

Record Last Update: 20260905T075625+0000

Ratings and Alerts

No rating or validation information has been found for pX260-U6-DR-BB-DR-Cbh-NLS-hSpCas9-NLS-H1-shorttracr-PGK-puro.

No alerts have been found for pX260-U6-DR-BB-DR-Cbh-NLS-hSpCas9-NLS-H1-shorttracr-PGK-puro.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 38 mentions in open access literature.

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

He B, et al. (2026) Mitigating xenogeneic barriers to chimerism through Cas13-induced host attenuation. *Developmental cell*, 61(3), 676.

Qu W, et al. (2026) HRD1 negatively regulates autolysosome formation by inhibiting liquid-liquid phase separation of SNAP29. *Cell reports*, 45(2), 116914.

Ma M, et al. (2024) Mycobacterium tuberculosis inhibits METTL14-mediated m6A methylation of Nox2 mRNA and suppresses anti-TB immunity. *Cell discovery*, 10(1), 36.

Mavrommatis L, et al. (2023) CRISPR/Cas9 Genome Editing in LGMD2A/R1 Patient-Derived Induced Pluripotent Stem and Skeletal Muscle Progenitor Cells. *Stem cells international*, 2023, 9246825.

Ma M, et al. (2023) TAK1 is an essential kinase for STING trafficking. *Molecular cell*, 83(21), 3885.

Amano N, et al. (2023) Single-exon deletions of ZNRF3 exon 2 cause congenital adrenal hypoplasia. *The Journal of clinical endocrinology and metabolism*.

Wang F, et al. (2022) Cytoplasmic PARP1 links the genome instability to the inhibition of antiviral immunity through PARylating cGAS. *Molecular cell*, 82(11), 2032.

Cui Z, et al. (2022) FrCas9 is a CRISPR/Cas9 system with high editing efficiency and fidelity. *Nature communications*, 13(1), 1425.

Cui Z, et al. (2021) The comparison of ZFNs, TALENs, and SpCas9 by GUIDE-seq in HPV-targeted gene therapy. *Molecular therapy. Nucleic acids*, 26, 1466.

Wang G, et al. (2021) Mosaic CRISPR-stop enables rapid phenotyping of nonsense mutations in essential genes. *Development (Cambridge, England)*, 148(5).

Chen Y, et al. (2020) In vitro and in vivo growth inhibition of human cervical cancer cells via human papillomavirus E6/E7 mRNAs' cleavage by CRISPR/Cas13a system. *Antiviral research*, 178, 104794.

Chen D, et al. (2020) Inositol Polyphosphate Multikinase Inhibits Liquid-Liquid Phase Separation of TFEB to Negatively Regulate Autophagy Activity. *Developmental cell*, 55(5), 588.

Fan HH, et al. (2019) P53 ICE CRIM mouse: a tool to generate mutant allelic series in somatic cells and germ lines for cancer studies. *FASEB journal : official publication of the*

Federation of American Societies for Experimental Biology, 33(4), 5571.

Lustyk D, et al. (2019) Genomic Structure of Hstx2 Modifier of Prdm9-Dependent Hybrid Male Sterility in Mice. *Genetics*, 213(3), 1047.

Yao X, et al. (2018) Tild-CRISPR Allows for Efficient and Precise Gene Knockin in Mouse and Human Cells. *Developmental cell*, 45(4), 526.

Yao X, et al. (2018) CRISPR/Cas9-mediated Targeted Integration In Vivo Using a Homology-mediated End Joining-based Strategy. *Journal of visualized experiments : JoVE*(133).

Xu J, et al. (2018) Optimized Plasmid Construction Strategy for Cas9. *Cellular physiology and biochemistry : international journal of experimental cellular physiology, biochemistry, and pharmacology*, 48(1), 131.

Ji H, et al. (2018) Zinc-Finger Nucleases Induced by HIV-1 Tat Excise HIV-1 from the Host Genome in Infected and Latently Infected Cells. *Molecular therapy. Nucleic acids*, 12, 67.

Elling R, et al. (2018) Genetic Models Reveal cis and trans Immune-Regulatory Activities for lincRNA-Cox2. *Cell reports*, 25(6), 1511.

Stein CS, et al. (2018) Mitoregulin: A lncRNA-Encoded Microprotein that Supports Mitochondrial Supercomplexes and Respiratory Efficiency. *Cell reports*, 23(13), 3710.