

Resource Summary Report

Generated by [NIF](#) on Sep 6, 2026

gRNA_Cloning Vector

RRID:Addgene_41824

Type: Plasmid

Proper Citation

RRID:Addgene_41824

Plasmid Information

URL: <http://www.addgene.org/41824>

Proper Citation: RRID:Addgene_41824

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:23287722](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Vector Backbone:pCR-Blunt II-TOPO; Vector Types:Mammalian Expression, CRISPR; Bacterial Resistance:Kanamycin

Plasmid Name: gRNA_Cloning Vector

Record Creation Time: 20220422T222216+0000

Record Last Update: 20260905T075622+0000

Ratings and Alerts

No rating or validation information has been found for gRNA_Cloning Vector.

No alerts have been found for gRNA_Cloning Vector.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 374 mentions in open access literature.

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

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

Rizzarda Maffezzoni MB, et al. (2026) Psoriasis-risk SNP rs610604 reveals nuclear IKK γ -TNFAIP3 repressor axis driving autoinflammatory circuits. *The Journal of investigative dermatology*.

Tolbert Z, et al. (2026) RAD54L promotes nascent DNA degradation and radial chromosome formation in FANC-deficient cells. *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.

Tobias IC, et al. (2025) A Sox2 enhancer cluster regulates region-specific neural fates from mouse embryonic stem cells. *G3 (Bethesda, Md.)*, 15(4).

Nakamura J, et al. (2025) Development of programmable RNA imaging with RNA-guided GFP via click chemistry. *Nucleic acids research*, 53(20).

Mladenov E, et al. (2025) CRISPR/Cas9 generated DSB clusters mimic complex lesions induced by high-LET radiation and shift repair from c-NHEJ to mutagenic repair pathways. *Scientific reports*, 15(1), 36480.

Ogawa Y, et al. (2025) GATA4 binding to the Sox9 enhancer mXYSRa/Enh13 is critical for testis differentiation in mouse. *Communications biology*, 8(1), 81.

Pulgarin DV, et al. (2025) Light-induced expression of gRNA allows for optogenetic gene editing of T lymphocytes in vivo. *Nucleic acids research*, 53(6).

Hirose J, et al. (2025) Targeted in vivo gene integration of a secretion-enabled GLP-1 receptor agonist reverses diet-induced non-genetic obesity and pre-diabetes. *Communications medicine*, 5(1), 269.

Azeroglu B, et al. (2025) Conserved and unique features of terminal telomeric sequences in ALT-positive cancer cells. *eLife*, 14.

Matsumoto D, et al. (2025) Screening strategy to identify Cas9 variants with higher HDR activity based on diphtheria toxin. *Journal of biomedical science*, 32(1), 102.

Dunn J, et al. (2025) Transcription Factor-Wide Association Studies to Identify Functional SNPs in Alzheimer's Disease. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 45(2).

Chou PC, et al. (2025) Phase separation of TTBK2 and CEP164 is necessary for ciliogenesis. *Cell reports*, 44(6), 115810.

Natsumoto B, et al. (2025) Identification of Potential Therapeutic Agents for Type I Interferonopathy Using iPSC-Based Disease Modeling. *Journal of clinical immunology*, 45(1), 140.

Dias M, et al. (2025) Beyond Trypanosoma cruzi: LINE-1 Activation as a Driver of Chronic Inflammation in Chagas Disease. International journal of molecular sciences, 26(10).

Yamada H, et al. (2025) Dual-directional epi-genotoxicity assay for assessing chemically induced epigenetic effects utilizing the housekeeping TK gene. Scientific reports, 15(1), 7780.

Tsukamura A, et al. (2025) KNTC1 introduces segmental heterogeneity to mitochondria. Disease models & mechanisms, 18(3).

Hara S, et al. (2025) Identification of maternal allele sequences of IG-DMR that are essential for neonatal viability. PloS one, 20(5), e0324882.

Lueg GA, et al. (2025) MYC deregulation sensitizes cancer cells to N-myristoyltransferase inhibition. Cell reports, 44(9), 116180.