

Resource Summary Report

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

gRNA_AAVS1-T2

RRID:Addgene_41818

Type: Plasmid

Proper Citation

RRID:Addgene_41818

Plasmid Information

URL: <http://www.addgene.org/41818>

Proper Citation: RRID:Addgene_41818

Insert Name: gRNA_AAVS1-T2

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

Comments: gRNA target sequence GGGGCCACTAGGGACAGGAT

Plasmid Name: gRNA_AAVS1-T2

Record Creation Time: 20220422T222216+0000

Record Last Update: 20260725T074655+0000

Ratings and Alerts

No rating or validation information has been found for gRNA_AAVS1-T2.

No alerts have been found for gRNA_AAVS1-T2.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 51 mentions in open access literature.

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

Smirnov AV, et al. (2025) Studying concatenation of the Cas9-cleaved transgenes using barcodes. *Vavilovskii zhurnal genetiki i selektsii*, 29(1), 26.

Moreira IB, et al. (2025) Neolactotetraosylceramide enables urinary detection of bladder cancer. *Cell reports. Medicine*, 6(8), 102246.

Kamath ND, et al. (2025) Comprehensive mutational characterization of the calcium-sensing STIM1 EF-hand reveals residues essential for structure and function. *bioRxiv : the preprint server for biology*.

McKenna MJ, et al. (2025) ARMC1 partitions between distinct complexes and assembles MIRO with MTFR to control mitochondrial distribution. *Science advances*, 11(15), eadu5091.

Tao Y, et al. (2024) Generation of locus coeruleus norepinephrine neurons from human pluripotent stem cells. *Nature biotechnology*, 42(9), 1404.

Komatsu S, et al. (2023) Target-dependent RNA polymerase as universal platform for gene expression control in response to intracellular molecules. *Nature communications*, 14(1), 7256.

Yang X, et al. (2023) Kirigami electronics for long-term electrophysiological recording of human neural organoids and assembloids. *bioRxiv : the preprint server for biology*.

Meng X, et al. (2023) Assembloid CRISPR screens reveal impact of disease genes in human neurodevelopment. *Nature*, 622(7982), 359.

Khabarova A, et al. (2023) A Cre-LoxP-based approach for combinatorial chromosome rearrangements in human HAP1 cells. *Chromosome research : an international journal on the molecular, supramolecular and evolutionary aspects of chromosome biology*, 31(1), 11.

Mauri S, et al. (2023) USP8 Down-Regulation Promotes Parkin-Independent Mitophagy in the Drosophila Brain and in Human Neurons. *Cells*, 12(8).

Repina NA, et al. (2023) Optogenetic control of Wnt signaling models cell-intrinsic embryogenic patterning using 2D human pluripotent stem cell culture. *Development (Cambridge, England)*, 150(14).

Kraus F, et al. (2023) PARK15/FBXO7 is dispensable for PINK1/Parkin mitophagy in iNeurons and HeLa cell systems. *EMBO reports*, 24(8), e56399.

Joshi J, et al. (2022) Optogenetic Control of Engrafted Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes in Live Mice: A Proof-of-Concept Study. *Cells*, 11(6).

Upadhyaya D, et al. (2022) Grafted hPSC-derived GABA-ergic interneurons regulate seizures and specific cognitive function in temporal lobe epilepsy. *NPJ Regenerative medicine*, 7(1), 38.

Manceau L, et al. (2022) Divergent transcriptional and transforming properties of PAX3-FOXO1 and PAX7-FOXO1 paralogs. *PLoS genetics*, 18(5), e1009782.

Habu T, et al. (2022) Gulo gene locus, a new gene editing locus for mammalian cells. *Biotechnology journal*, 17(7), e2100493.

Moroi AJ, et al. (2022) Conditional CRISPR-mediated deletion of Lyn kinase enhances differentiation and function of iPSC-derived megakaryocytes. *Journal of thrombosis and haemostasis : JTH*, 20(1), 182.

Wu D, et al. (2021) The infantile myofibromatosis NOTCH3 L1519P mutation leads to hyperactivated ligand-independent Notch signaling and increased PDGFRB expression. *Disease models & mechanisms*, 14(2).

Wang Q, et al. (2021) Precise and broad scope genome editing based on high-specificity Cas9 nickases. *Nucleic acids research*, 49(2), 1173.

Flores-Bellver M, et al. (2021) Extracellular vesicles released by human retinal pigment epithelium mediate increased polarised secretion of drusen proteins in response to AMD stressors. *Journal of extracellular vesicles*, 10(13), e12165.