

Resource Summary Report

Generated by [RRID](#) on Aug 22, 2026

AAV:ITR-U6-sgRNA(backbone)-hSyn-Cre-2A-EGFP-KASH-WPRE-shortPA-ITR

RRID:Addgene_60231

Type: Plasmid

Proper Citation

RRID:Addgene_60231

Plasmid Information

URL: <http://www.addgene.org/60231>

Proper Citation: RRID:Addgene_60231

Insert Name: sgRNA

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:25263330](#)

Vector Backbone Description: Backbone Size:2597; Vector Backbone:AAV; Vector Types:Mammalian Expression, Mouse Targeting, AAV, Cre/Lox, CRISPR; Bacterial Resistance:Ampicillin

Comments: Information for Cas9 mice: JAX Stock#024857 B6.129S-Gt(ROSA)26Sor/J Strain Common Name: Cre-dependent Cas9 mouse; Rosa26-LSL-Cas9 (<http://jaxmice.jax.org/strain/024857.html>) JAX Stock#024858 B6;129S(FVB)-Gt(ROSA)26Sor/J Strain Common Name: constitutively active Cas9 mouse; Rosa26-Cas9 (<http://jaxmice.jax.org/strain/024858.html>)

Plasmid Name: AAV:ITR-U6-sgRNA(backbone)-hSyn-Cre-2A-EGFP-KASH-WPRE-shortPA-ITR

Record Creation Time: 20220422T222346+0000

Record Last Update: 20260815T081730+0000

Ratings and Alerts

No rating or validation information has been found for AAV:ITR-U6-sgRNA(backbone)-hSyn-Cre-2A-EGFP-KASH-WPRE-shortPA-ITR.

No alerts have been found for AAV:ITR-U6-sgRNA(backbone)-hSyn-Cre-2A-EGFP-KASH-WPRE-shortPA-ITR.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 23 mentions in open access literature.

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

Yi Z, et al. (2026) SNORA49 negatively regulates self-renewal of liver cancer stem cells and hepatocarcinogenesis via suppressing SOX9 transcription. Nature communications, 17(1), 766.

Popek M, et al. (2026) Astrocytic TCF7L2 Impacts Brain Osmoregulation and Restricts Neuronal Excitability. Glia, 74(2), e70103.

Halvorsen AT, et al. (2026) CRISPR inhibition of activity-dependent Arc expression in the adult mouse brain has limited effects on plasticity in visual cortex and nucleus accumbens. bioRxiv : the preprint server for biology.

Woo MS, et al. (2025) The immunoproteasome disturbs neuronal metabolism and drives neurodegeneration in multiple sclerosis. Cell, 188(17), 4567.

Zhou Z, et al. (2025) SNORA74A Drives Self-Renewal of Liver Cancer Stem Cells and Hepatocarcinogenesis Through Activation of Notch3 Signaling. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 12(26), e2504054.

Li Y, et al. (2025) Tachykinin signaling in the right parabrachial nucleus mediates early-phase neuropathic pain development. Neuron, 113(4), 605.

Pan R, et al. (2025) Editing DNA methylation in vivo. Nature communications, 17(1), 527.

Gu Y, et al. (2024) SNORD88B-mediated WRN nucleolar trafficking drives self-renewal in liver cancer initiating cells and hepatocarcinogenesis. Nature communications, 15(1), 6730.

Santinha AJ, et al. (2023) Transcriptional linkage analysis with in vivo AAV-Perturb-seq. Nature, 622(7982), 367.

DeBaker MC, et al. (2023) RGS6 negatively regulates inhibitory G protein signaling in dopamine neurons and positively regulates binge-like alcohol consumption in mice. British journal of pharmacology, 180(16), 2140.

Liu Z, et al. (2022) Deletion of Calsyntenin-3, an atypical cadherin, suppresses inhibitory synapses but increases excitatory parallel-fiber synapses in cerebellum. eLife, 11.

Wang G, et al. (2022) Somatic genetics analysis of sleep in adult mice. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 42(28), 5617.

DeBaker MC, et al. (2021) Differential Impact of Inhibitory G-Protein Signaling Pathways in Ventral Tegmental Area Dopamine Neurons on Behavioral Sensitivity to Cocaine and Morphine. *eNeuro*, 8(2).

Wang Y, et al. (2021) N1-methyladenosine methylation in tRNA drives liver tumourigenesis by regulating cholesterol metabolism. *Nature communications*, 12(1), 6314.

Feng B, et al. (2021) Planar cell polarity signaling components are a direct target of β -amyloid-associated degeneration of glutamatergic synapses. *Science advances*, 7(34).

Gemberling MP, et al. (2021) Transgenic mice for in vivo epigenome editing with CRISPR-based systems. *Nature methods*, 18(8), 965.

Gantz SC, et al. (2020) Delta glutamate receptor conductance drives excitation of mouse dorsal raphe neurons. *eLife*, 9.

Nishitani N, et al. (2019) CRISPR/Cas9-mediated in vivo gene editing reveals that neuronal 5-HT_{1A} receptors in the dorsal raphe nucleus contribute to body temperature regulation in mice. *Brain research*, 1719, 243.

Gao Y, et al. (2019) Plug-and-Play Protein Modification Using Homology-Independent Universal Genome Engineering. *Neuron*, 103(4), 583.

Wang Y, et al. (2019) LncRNA HAND2-AS1 promotes liver cancer stem cell self-renewal via BMP signaling. *The EMBO journal*, 38(17), e101110.