

Resource Summary Report

Generated by [dkNET](#) on Jul 29, 2026

Guide Design Resources

RRID:SCR_018982

Type: Tool

Proper Citation

Guide Design Resources (RRID:SCR_018982)

Resource Information

URL: <https://zlab.bio/guide-design-resources>

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Description: Laboratory portal about research including new approaches for precision gene editing, delivery of molecular and genetic cargo, discovery of novel programmable systems, and engineering of immune system to develop next generation of therapeutics. Provides collection of tools for guide design. CRISPR.MIT.EDU of Guide Design Tools is no longer available, documented on August 28, 2020.

Resource Type: data or information resource, organization portal, portal, laboratory portal

Keywords: Guide design tools, precision gene editing, immune system engineering, next generation therapeutics, guide design

Availability: Free, Freely available

Resource Name: Guide Design Resources

Resource ID: SCR_018982

Record Creation Time: 20220129T080342+0000

Record Last Update: 20260729T044452+0000

Ratings and Alerts

No rating or validation information has been found for Guide Design Resources.

No alerts have been found for Guide Design Resources.

Data and Source Information

Usage and Citation Metrics

We found 294 mentions in open access literature.

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

Duan Z, et al. (2025) Dynamic and intricate regulation by the Csr sRNAs in the Arctic *Pseudoalteromonas fuliginea*. *Communications biology*, 8(1), 369.

Ni C, et al. (2025) Allele-Specific Regulation of PAXIP1-AS1 by SMC3/CEBPB at rs112651172 in Psychiatric Disorders Drives Synaptic and Behavioral Dysfunctions in Mice. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 12(44), e08259.

Wang YY, et al. (2025) Inhibition of MBTPS1 enhances antitumor immunity and potentiates anti-PD-1 immunotherapy. *Nature communications*, 16(1), 4047.

Xu Z, et al. (2025) Interferon-stimulated gene screening identifies CCND3 as a host restriction factor against emerging high-pathogenic bandaviruses. *Nature communications*, 16(1), 7935.

Qiu X, et al. (2025) Pan-cancer analysis and experimental verification of cytochrome B561 as a prognostic and therapeutic biomarker in breast cancer. *Discover oncology*, 16(1), 330.

Tokumasu M, et al. (2025) Tob negatively regulates NF- κ B activation in breast cancer through its association with the TNF receptor complex. *Cancer gene therapy*, 32(5), 573.

Ye Z, et al. (2025) A Feedback Loop Between Fatty Acid Metabolism and Epigenetics in Clear Cell Renal Carcinoma. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 12(28), e04532.

Page PM, et al. (2025) MicroRNA profiling identifies VHL/HIF-2 α dependent miR-2355-5p as a key modulator of clear cell Renal cell carcinoma tumor growth. *Cancer cell international*, 25(1), 71.

Li H, et al. (2025) Construction and Evaluation of Quadruple-Gene-Deleted Pseudorabies Virus Platforms for ASFV Antigen Delivery. *Transboundary and emerging diseases*, 2025, 3628600.

Ye N, et al. (2025) Asymmetric metabolic adaptations undermine stability in microbial syntrophy. *ISME communications*, 5(1), ycaf011.

Smidler AL, et al. (2025) Engineering gene drive docking sites in a haplolethal locus in *Anopheles gambiae*. *bioRxiv : the preprint server for biology*.

Rahman FA, et al. (2025) DNM1L-mediated fission governs mitophagy & mitochondrial biogenesis during myogenic differentiation. *Cell communication and signaling : CCS*, 23(1), 158.

Duan Z, et al. (2025) Development of a CRISPR/Cas9-induced gene editing system for *Pseudoalteromonas fuliginea* and its applications in functional genomics. *Applied and environmental microbiology*, 91(11), e0177125.

Smidler AL, et al. (2025) Engineering gene drive docking sites in a haplolethal locus in *Anopheles gambiae*. *Scientific reports*, 15(1), 35074.

Hsu CC, et al. (2025) PD-L1 regulates c-MET phosphorylation and contributes to MET-dependent resistance to osimertinib in EGFR-mutant NSCLC. *Journal of biomedical science*, 32(1), 94.

Liu X, et al. (2025) A 14-bp motif in the KIT active promoter region is critical for melanin accumulation in yaks, mice, and humans. *BMC biology*, 23(1), 208.

Zhan Y, et al. (2025) OXA1L deficiency causes mitochondrial myopathy via reactive oxygen species regulated nuclear factor kappa B signalling pathway. *Clinical and translational medicine*, 15(6), e70385.

Kong X, et al. (2024) Engineered FSHD mutations results in D4Z4 heterochromatin disruption and feedforward DUX4 network activation. *iScience*, 27(4), 109357.

Fazel Darbandi S, et al. (2024) Five autism-associated transcriptional regulators target shared loci proximal to brain-expressed genes. *Cell reports*, 43(6), 114329.

Hua X, et al. (2024) A *Ctnnb1* enhancer transcriptionally regulates Wnt signaling dosage to balance homeostasis and tumorigenesis of intestinal epithelia. *eLife*, 13.