Resource Summary Report

Generated by NIF on Apr 19, 2025

CRISPick

RRID:SCR_025148
Type: Tool

Proper Citation

CRISPick (RRID:SCR_025148)

Resource Information

URL: https://portals.broadinstitute.org/gppx/crispick/public

Proper Citation: CRISPick (RRID:SCR_025148)

Description: Web tool for prediction of sgRNAs. Helps to select optimal guide RNA for gene of interest. Support for designing guide libraries. CRISPick ranks and picks candidate CRISPRko sgRNA sequences for targets provided, while attempting to maximize on-target activity and minimizing off-target activity.

Resource Type: web service, software resource, data access protocol

Keywords: sgRNAs prediction, RNA, gene of interest, pick candidate sequences, CRISPRko/a/i sgRNA sequences, maximize on target activity,

Funding:

Availability: Free, Freely available

Resource Name: CRISPick

Resource ID: SCR_025148

Record Creation Time: 20240327T053241+0000

Record Last Update: 20250418T055718+0000

Ratings and Alerts

No rating or validation information has been found for CRISPick.

No alerts have been found for CRISPick.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 45 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

Provencher L, et al. (2025) CHD6 has poly(ADP-ribose)- and DNA-binding domains and regulates PARP1/2-trapping inhibitor sensitivity via abasic site repair. Nature communications, 16(1), 1026.

Teng Y, et al. (2025) Protocol for generating splice isoform-specific mouse mutants using CRISPR-Cas9 and a minigene splicing reporter. STAR protocols, 6(1), 103543.

Zhang Y, et al. (2025) Super-silencer perturbation by EZH2 and REST inhibition leads to large loss of chromatin interactions and reduction in cancer growth. Nature structural & molecular biology, 32(1), 137.

Yin JA, et al. (2025) Arrayed CRISPR libraries for the genome-wide activation, deletion and silencing of human protein-coding genes. Nature biomedical engineering, 9(1), 127.

Zhao Q, et al. (2025) Nonenzymatic lysine D-lactylation induced by glyoxalase II substrate SLG dampens inflammatory immune responses. Cell research, 35(2), 97.

Monteil VM, et al. (2024) Crimean-Congo haemorrhagic fever virus uses LDLR to bind and enter host cells. Nature microbiology, 9(6), 1499.

Zhan W, et al. (2024) Energy stress promotes P-bodies formation via lysine-63-linked polyubiquitination of HAX1. The EMBO journal, 43(13), 2759.

Zhou X, et al. (2024) Integrated proteomics reveals autophagy landscape and an autophagy receptor controlling PKA-RI complex homeostasis in neurons. Nature communications, 15(1), 3113.

Cheong TC, et al. (2024) Mechanistic patterns and clinical implications of oncogenic tyrosine kinase fusions in human cancers. Nature communications, 15(1), 5110.

Walton J, et al. (2024) PRMT1 inhibition perturbs RNA metabolism and induces DNA damage in clear cell renal cell carcinoma. Nature communications, 15(1), 8232.

Bolduc V, et al. (2024) Allele-specific CRISPR/Cas9 editing inactivates a single nucleotide variant associated with collagen VI muscular dystrophy. bioRxiv : the preprint server for biology.

Ma Y, et al. (2024) An Integrative Transcriptome Subtraction Strategy to Identify Human lncRNAs That Specifically Play a Role in Activation of Human Hepatic Stellate Cells. Non-coding RNA, 10(3).

Bolduc V, et al. (2024) Allele-specific CRISPR-Cas9 editing inactivates a single nucleotide variant associated with collagen VI muscular dystrophy. Molecular therapy. Nucleic acids, 35(3), 102269.

Petazzi P, et al. (2024) A novel human pluripotent stem cell gene activation system identifies IGFBP2 as a mediator in the production of haematopoietic progenitors in vitro. eLife, 13.

Mihaljevic A, et al. (2024) Cell type specific long non-coding RNA targets identified by integrative analysis of single-cell and bulk colorectal cancer transcriptomes. Scientific reports, 14(1), 10939.

Kilgas S, et al. (2024) NEAT1 modulates the TIRR/53BP1 complex to maintain genome integrity. Nature communications, 15(1), 8438.

Zhu T, et al. (2024) Integrated enhancer regulatory network by enhancer-promoter looping in gastric cancer. NAR cancer, 6(2), zcae020.

Sharma AK, et al. (2024) Engineering CRISPR/Cas9 therapeutics for cancer precision medicine. Frontiers in genetics, 15, 1309175.

McGee AV, et al. (2024) Modular vector assembly enables rapid assessment of emerging CRISPR technologies. Cell genomics, 4(3), 100519.

Raynor JL, et al. (2024) CRISPR screens unveil nutrient-dependent lysosomal and mitochondrial nodes impacting intestinal tissue-resident memory CD8+ T cell formation. Immunity, 57(11), 2597.