Resource Summary Report

Generated by NIF on May 2, 2025

CRISPRscan

RRID:SCR_023777 Type: Tool

Proper Citation

CRISPRscan (RRID:SCR_023777)

Resource Information

URL: https://www.crisprscan.org/

Proper Citation: CRISPRscan (RRID:SCR_023777)

Description: Web tool for predictive sgRNA-scoring that captures sequence features affecting Cas9/sgRNA activity in vivo. Scoring algorithm to help select the best gRNAs for CRISPR.

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

Keywords: predictive sgRNA-scoring, sequence features capture, affecting Cas9/sgRNA activity in vivo, select gRNAs for CRISPR,

Funding: Swiss National Science Foundation ; NICHD R21 HD073768; NIGMS R01 GM103789; NIGMS R01 GM102251; NIGMS R01 GM101108; NIGMS GM081602; NICHD R01 HD081379; Edward Mallinckrodt Jr Foundation

Availability: Free, Freely available

Resource Name: CRISPRscan

Resource ID: SCR_023777

Record Creation Time: 20230711T050220+0000

Ratings and Alerts

No rating or validation information has been found for CRISPRscan.

No alerts have been found for CRISPRscan.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 36 mentions in open access literature.

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

Zhang S, et al. (2025) Integrative mRNA and miRNA Expression Profiles from Developing Zebrafish Head Highlight Brain-Preference Genes and Regulatory Networks. Molecular neurobiology, 62(2), 2148.

Saha D, et al. (2025) Critical considerations and computational tools in plant genome editing. Heliyon, 11(1), e41135.

Lee MS, et al. (2024) Mycb and Mych stimulate Müller glial cell reprogramming and proliferation in the uninjured and injured zebrafish retina. Development (Cambridge, England), 151(14).

Wise M, et al. (2024) A molecular basis for spine color morphs in the sea urchin Lytechinus variegatus. Scientific reports, 14(1), 28518.

Sukhan ZP, et al. (2024) Molecular Characterization, Expression Analysis, and CRISPR/Cas9 Mediated Gene Disruption of Myogenic Regulatory Factor 4 (MRF4) in Nile Tilapia. Current issues in molecular biology, 46(12), 13725.

Park JW, et al. (2024) RFC2 may contribute to the pathogenicity of Williams syndrome revealed in a zebrafish model. Journal of genetics and genomics = Yi chuan xue bao, 51(12), 1389.

Goumenaki P, et al. (2024) The innate immune regulator MyD88 dampens fibrosis during zebrafish heart regeneration. Nature cardiovascular research, 3(9), 1158.

Wei X, et al. (2024) GhRCD1 promotes cotton tolerance to cadmium by regulating the GhbHLH12-GhMYB44-GhHMA1 transcriptional cascade. Plant biotechnology journal, 22(7), 1777.

Carron M, et al. (2024) Evolutionary origin of Hoxc13-dependent skin appendages in amphibians. Nature communications, 15(1), 2328.

Xu Y, et al. (2024) PDGFRA is a conserved HAND2 effector during early cardiac development. Nature cardiovascular research, 3(12), 1531.

Fernandes LGV, et al. (2024) CRISPR-prime editing, a versatile genetic tool to create specific mutations with a single nucleotide resolution in Leptospira. mBio, 15(9), e0151624.

Zareba J, et al. (2024) NPC1 links cholesterol trafficking to microglial morphology via the gastrosome. Nature communications, 15(1), 8638.

Wang P, et al. (2024) LOXHD1 is indispensable for coupling auditory mechanosensitive channels to the site of force transmission. Research square.

Boavida A, et al. (2024) FANCJ DNA helicase is recruited to the replisome by AND-1 to ensure genome stability. EMBO reports, 25(2), 876.

Ren Z, et al. (2024) foxl2l is a germ cell-intrinsic gatekeeper of oogenesis in zebrafish. Zoological research, 45(5), 1116.

El Amri M, et al. (2024) Marcks and Marcks-like 1 proteins promote spinal cord development and regeneration in Xenopus. eLife, 13.

Wang X, et al. (2024) Impaired glycine neurotransmission causes adolescent idiopathic scoliosis. The Journal of clinical investigation, 134(2).

Griffin C, et al. (2024) Sf3b4 mutation in Xenopus tropicalis causes RNA splicing defects followed by massive gene dysregulation that disrupt cranial neural crest development. bioRxiv : the preprint server for biology.

Richard CA, et al. (2024) Microtubule polarity determines the lineage of embryonic neural precursor in zebrafish spinal cord. Communications biology, 7(1), 439.

Yu C, et al. (2024) Spatiotemporal modulation of nitric oxide and Notch signaling by hemodynamic-responsive Trpv4 is essential for ventricle regeneration. Cellular and molecular life sciences : CMLS, 81(1), 60.