

Resource Summary Report

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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

Record Last Update: 20260729T044600+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 58 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Khan A, et al. (2026) HMPV-TherResDB: Comprehensive human metapneumovirus (HMPV) database for sequence-structure annotations, vaccine resources, and therapeutics research. *Virus research*, 363, 199665.

Marquez J, et al. (2025) Polyamine metabolism is dysregulated in COXFA4-related mitochondrial disease. *HGG advances*, 6(2), 100418.

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.

Hsu CW, et al. (2025) Single-cell transcriptomes of zebrafish germline reveal progenitor types and feminization by Foxl2l. *eLife*, 14.

Davis BR, et al. (2025) Epithelial transcription factor Elf3 mediates host immune responses to microbiota and protects against aerocystitis in zebrafish. *mBio*, 16(12), e0226725.

Wu K, et al. (2025) Ace2 mutation disrupts amino acid absorption, impairs growth, and alters microbiota dynamics in zebrafish. *Communications biology*, 8(1), 1226.

Parisien-La Salle S, et al. (2025) Rapid generation of a sdhb loss-of-function zebrafish model for secreting pheochromocytomas and paragangliomas. *NPJ genomic medicine*, 10(1), 59.

Griffin C, et al. (2025) Deletion of sf3b4 causes splicing defects and gene dysregulation that disrupt craniofacial development and survival. *Disease models & mechanisms*, 18(3).

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

Keeley S, et al. (2025) Rapid and robust generation of cardiomyocyte-specific crisprants in zebrafish using the cardiodeleter system. *Cell reports methods*, 5(3), 101003.

Munro B, et al. (2025) Deoxynucleoside supplementation ameliorates the disease associated phenotypes in a zebrafish model of RRM2B mtDNA depletion syndrome.

Human molecular genetics, 34(11), 967.

Zhang L, et al. (2025) Vitellogenin receptor mediates heat adaptability of oocyte development in mud crabs and zebrafish. *Nature communications*, 16(1), 3722.

Logan CY, et al. (2025) Deletion of an enhancer that controls Wnt gene expression following tissue injury produces increased adipogenesis in regenerated muscle. *Development (Cambridge, England)*, 152(24).

Li X, et al. (2025) The indispensable role of Mediator complex subunit 27 during neurodevelopment. *Cell & bioscience*, 15(1), 83.

He HM, et al. (2025) Epidermal stem cells control periderm injury repair via matrix-driven specialization of intercellular junctions. *Nature communications*, 16(1), 8967.

Goh SYC, et al. (2025) Zbtb48 is a regulator of Mtfp1 expression in zebrafish. *Communications biology*, 8(1), 277.

Wu K, et al. (2025) Disrupting Amh and androgen signaling reveals their distinct roles in zebrafish gonadal differentiation and gametogenesis. *Communications biology*, 8(1), 371.

Wu Y, et al. (2025) Pu.1/Spi1 dosage controls the turnover and maintenance of microglia in zebrafish and mammals. *eLife*, 14.

Marelli G, et al. (2025) Chemosensor receptors are lipid-detecting regulators of macrophage function in cancer. *Nature immunology*, 26(7), 1182.

Belyantseva IA, et al. (2025) Taperin bundles F-actin at stereocilia pivot points enabling optimal lifelong mechanosensitivity. *The Journal of cell biology*, 224(8).