

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: data access protocol, software resource, web service

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

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

Availability: Free, Freely available

Resource Name: CRISPRscan

Resource ID: SCR_023777

Record Creation Time: 20230711T050220+0000

Record Last Update: 20260903T235915+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 85 mentions in open access literature.

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

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.

Zhang W, et al. (2026) Extract from crown-of-thorns starfish promotes zebrafish caudal fin regeneration by inhibition of neutrophil migration. *PeerJ*, 14, e20863.

Ribeiro Kalthof A, et al. (2026) IRX3 depletion promotes early cardiac commitment of hiPSC-Derived Cardiomyocytes. *PloS one*, 21(6), e0351704.

Fernandes LGV, et al. (2026) CRISPR-based mutagenesis of lipopolysaccharide biosynthesis genes in *Leptospira interrogans* reveals gene essentiality and confirms the role of an O-antigen polymerase. *Scientific reports*, 16(1).

Lopez KE, et al. (2026) Reciprocal compensation of caspase-2 and p53 regulates the DNA damage response in HCT116 colon cancer cells. *The Journal of biological chemistry*, 302(7), 113199.

Wan H, et al. (2026) Camsap2a regulates actomyosin flow and Rab5ab-mediated macropinocytosis in the yolk cell during zebrafish epiboly. *Development (Cambridge, England)*, 153(3).

Wang X, et al. (2026) AtAUGs Suppress the Expression of PP2C Genes to Redundantly Regulate ABA Responses in Arabidopsis. *Plants (Basel, Switzerland)*, 15(7).

Lkhagvadorj K, et al. (2026) Optimizing CRISPR precision in mouse embryos via microhomology-mediated end joining-dominant targeting. *Communications biology*, 9(1).

Pandey A, et al. (2026) Adam13 interacts with large protein complexes to regulate histone modification and gene expression. *Frontiers in cell and developmental biology*, 14, 1824619.

Shen Y, et al. (2026) HSD17B7 is required for the function of sensory hair cells by regulating cholesterol synthesis. *eLife*, 14.

Iqbal G, et al. (2026) Myogenic Potential in Labeo rohita Dorsal Muscle Cell Line and Development of CRISPR-Cas9 Construct for Myostatin Gene. ACS omega, 11(1), 349.

Fernandes LGV, et al. (2026) The Leptospira immunoglobulin-like protein LigB from Leptospira borgpetersenii serovar Arborea is not required for either acute or chronic infection. Infection and immunity, 94(4), e0066225.

Surl D, et al. (2026) A Dosage-Dependent Dominant-Negative Mechanism of SLC45A2(W74R) in Autosomal Dominant Oculocutaneous Albinism Revealed by Zebrafish Modeling. Translational vision science & technology, 15(2), 22.

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.

Piao CL, et al. (2025) An Improved Agrobacterium-Mediated Transformation Method for an Important Fresh Fruit: Kiwifruit (Actinidia deliciosa). Plants (Basel, Switzerland), 14(15).

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).

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

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

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.

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