

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: 20260912T200042+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 [Kravitz](#) .

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.

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.

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.

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.

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).

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

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.

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

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.