# **Resource Summary Report**

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# **Off-Spotter**

RRID:SCR\_015739 Type: Tool

**Proper Citation** 

Off-Spotter (RRID:SCR\_015739)

#### **Resource Information**

URL: https://cm.jefferson.edu/Off-Spotter//

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**Description:** Web application that identifies genomic instances for a given combination of gRNA(s), PAM, number of mismatches, and seed. This tool is limited to a single 1,000 nucleotides sequence or fewer than twenty CR-separated 20-mers.

Synonyms: Off-Spotter: tool for CRISPR/Cas design, Off-spotter sgRNA algorithm

Resource Type: software resource, web application, algorithm resource

Defining Citation: PMID:25630343

Keywords: CRISPR, Cas, sgrna, prokaryotic immune system, genetic engineering, bio.tools

Funding: William M. Keck Foundation

Availability: Freely available, Free, Available for download, Tutorial available

Resource Name: Off-Spotter

Resource ID: SCR\_015739

Alternate IDs: biotools:off-spotter

Alternate URLs: https://bio.tools/off-spotter

Record Creation Time: 20220129T080327+0000

Record Last Update: 20250517T060225+0000

## **Ratings and Alerts**

No rating or validation information has been found for Off-Spotter.

No alerts have been found for Off-Spotter.

## Data and Source Information

Source: SciCrunch Registry

#### **Usage and Citation Metrics**

We found 35 mentions in open access literature.

Listed below are recent publications. The full list is available at <u>dkNET</u>.

He L, et al. (2024) Tumor Microenvironment-Responsive Nanocapsule Delivery CRISPR/Cas9 to Reprogram the Immunosuppressive Microenvironment in Hepatoma Carcinoma. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 11(26), e2403858.

Zapanta Rinonos S, et al. (2024) dCas9/CRISPR-based methylation of O-6-methylguanine-DNA methyltransferase enhances chemosensitivity to temozolomide in malignant glioma. Journal of neuro-oncology, 166(1), 129.

Hu T, et al. (2024) [Non-small Cell Lung Cancer Cell Line PC-9 Drug-resistant Mutant Cell Line ?Establishment and Validation of Their Sensitivity to EGFR Inhibitors]. Zhongguo fei ai za zhi = Chinese journal of lung cancer, 27(11), 815.

Choi DE, et al. (2024) Base editing strategies to convert CAG to CAA diminish the diseasecausing mutation in Huntington's disease. eLife, 12.

Madsen S, et al. (2024) A fluorescent perilipin 2 knock-in mouse model reveals a high abundance of lipid droplets in the developing and adult brain. Nature communications, 15(1), 5489.

Beddows CA, et al. (2024) Pathogenic hypothalamic extracellular matrix promotes metabolic disease. Nature, 633(8031), 914.

Bordat C, et al. (2023) Validation of Knock-Out Caco-2 TC7 Cells as Models of Enterocytes of Patients with Familial Genetic Hypobetalipoproteinemias. Nutrients, 15(3).

Sladen PE, et al. (2022) Modelling autosomal dominant optic atrophy associated with OPA1 variants in iPSC-derived retinal ganglion cells. Human molecular genetics, 31(20), 3478.

Zou Y, et al. (2022) Blood-brain barrier-penetrating single CRISPR-Cas9 nanocapsules for effective and safe glioblastoma gene therapy. Science advances, 8(16), eabm8011.

Song J, et al. (2022) Mutant RIG-I enhances cancer-related inflammation through activation of circRIG-I signaling. Nature communications, 13(1), 7096.

Salimi-Jeda A, et al. (2022) Inhibition of HIV-1 replication using the CRISPR/cas9-no NLS system as a prophylactic strategy. Heliyon, 8(9), e10483.

Deng HX, et al. (2021) Efficacy and long-term safety of CRISPR/Cas9 genome editing in the SOD1-linked mouse models of ALS. Communications biology, 4(1), 396.

Li P, et al. (2021) Piccolo is essential for the maintenance of mouse retina but not cochlear hair cell function. Aging, 13(8), 11678.

Sharanek A, et al. (2021) Transcriptional control of brain tumor stem cells by a carbohydrate binding protein. Cell reports, 36(9), 109647.

Sapozhnikov DM, et al. (2021) Unraveling the functional role of DNA demethylation at specific promoters by targeted steric blockage of DNA methyltransferase with CRISPR/dCas9. Nature communications, 12(1), 5711.

Sánchez-López A, et al. (2021) Cardiovascular Progerin Suppression and Lamin A Restoration Rescue Hutchinson-Gilford Progeria Syndrome. Circulation, 144(22), 1777.

Ogino T, et al. (2021) Post-transcriptional repression of circadian component CLOCK regulates cancer-stemness in murine breast cancer cells. eLife, 10.

Dhoke NR, et al. (2021) A universal gene correction approach for FKRP-associated dystroglycanopathies to enable autologous cell therapy. Cell reports, 36(2), 109360.

Sladen PE, et al. (2021) CRISPR-Cas9 correction of OPA1 c.1334G>A: p.R445H restores mitochondrial homeostasis in dominant optic atrophy patient-derived iPSCs. Molecular therapy. Nucleic acids, 26, 432.

Li B, et al. (2021) CRISPR-SE: a brute force search engine for CRISPR design. NAR genomics and bioinformatics, 3(1), lqab013.