

Resource Summary Report

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CRISPR-P

RRID:SCR_016941

Type: Tool

Proper Citation

CRISPR-P (RRID:SCR_016941)

Resource Information

URL: <http://crispr.hzau.edu.cn/CRISPR/>

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Description: Web tool for synthetic single-guide RNA design of CRISPR-system in plants. Allows to search for high specificity Cas9 target sites within DNA sequences of interest, which also provides off-target loci prediction for specificity analyses and marks restriction enzyme cutting site to every sgRNA for further convenient in experiment.

Synonyms: CRISPR-P 2.0, Clustered Regularly Interspaced Short Palindromic Repeats P, CRISPR P

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

Defining Citation: [PMID:24719468](#)

Keywords: synthetic, single, RNA, CRISP, plant, Cas9, target, DNA, sequence, analysis, restriction, enzyme, sgRNA, bio.tools

Funding: Fundamental Research Funds for the Central Universities ;
National Basic Research Program of China ;
Program for New Century Excellent Talents in University

Availability: Free, Freely available

Resource Name: CRISPR-P

Resource ID: SCR_016941

Alternate IDs: biotools:CRISPR-P

Alternate URLs: <https://bio.tools/CRISPR-P>

Record Creation Time: 20220129T080332+0000

Record Last Update: 20260905T132815+0000

Ratings and Alerts

No rating or validation information has been found for CRISPR-P.

No alerts have been found for CRISPR-P.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 42 mentions in open access literature.

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

Xu M, et al. (2026) TKC-MC: An Effective Strategy for Generating Heritable Heterozygous Mutations in Essential Genes in Rice. Plant biotechnology journal, 24(4), 2092.

Zhang M, et al. (2026) TCP21 negatively regulates photomorphogenesis by integrating phyB- and HY5-mediated signaling pathways in Arabidopsis. The Plant journal : for cell and molecular biology, 126(3), e70902.

Zhang S, et al. (2026) U-Shaped Response of Flowering Time to Low and High Nitrogen via a Transcription Feedback Loop in Rice. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(4), e08498.

Ogo Y, et al. (2025) A 65-kb deletion survey identifies a distal cis-regulatory region for red-light induction of Ghd7, a key rice floral repressor. Proceedings of the National Academy of Sciences of the United States of America, 122(33), e2423119122.

Li X, et al. (2025) A natural variant of an MYC2 gene in soybean contributes to resistance against the common cutworm. Proceedings of the National Academy of Sciences of the United States of America, 122(52), e2424956122.

Hussain MA, et al. (2025) Integrative analyses reveal Bna-miR397a-BnaLAC2 as a potential modulator of low-temperature adaptability in Brassica napus L. Plant biotechnology journal, 23(6), 1968.

Liu Y, et al. (2025) Inactivation of GH3.5 by COP1-mediated K63-linked ubiquitination promotes seedling hypocotyl elongation. Nature communications, 16(1), 3541.

Wang B, et al. (2025) Knockout of the OsNAC113 Transcription Factor Causes High Salt Resistance in Rice. Plants (Basel, Switzerland), 14(23).

Zhou Z, et al. (2024) Transcriptome analysis to identify genes related to programmed cell death resulted from manipulating of BnaFAH ortholog by CRISPR/Cas9 in *Brassica napus*. *Scientific reports*, 14(1), 26389.

Chen Z, et al. (2024) Heat Stress Responsive Aux/IAA Protein, OsIAA29 Regulates Grain Filling Through OsARF17 Mediated Auxin Signaling Pathway. *Rice (New York, N.Y.)*, 17(1), 16.

Cai Z, et al. (2024) GmAMT2.1/2.2-dependent ammonium nitrogen and metabolites shape rhizosphere microbiome assembly to mitigate cadmium toxicity. *NPJ biofilms and microbiomes*, 10(1), 60.

Tu M, et al. (2024) A CRISPR/Cas9-induced male-sterile line facilitating easy hybrid production in polyploid rapeseed (*Brassica napus*). *Horticulture research*, 11(7), uhae139.

Li ZP, et al. (2024) Versatile Cloning Strategy for Efficient Multigene Editing in *Arabidopsis*. *Bio-protocol*, 14(13), e5029.

Sandhu J, et al. (2024) Natural variation in LONELY GUY-Like 1 regulates rice grain weight under warmer night conditions. *Plant physiology*, 196(1), 164.

Suo Q, et al. (2024) R2R3 MYB Transcription Factor GhMYB201 Promotes Cotton Fiber Elongation via Cell Wall Loosening and Very-Long-Chain Fatty Acid Synthesis. *International journal of molecular sciences*, 25(17).

Zhai D, et al. (2024) Reciprocal conversion between annual and polycarpic perennial flowering behavior in the Brassicaceae. *Cell*, 187(13), 3319.

Hu Y, et al. (2023) Integrating genome-wide association and transcriptome analysis to provide molecular insights into heterophylly and eco-adaptability in woody plants. *Horticulture research*, 10(11), uhad212.

Ludwig Y, et al. (2023) CRISPR-mediated promoter editing of a cis-regulatory element of OsNAS2 increases Zn uptake/translocation and plant yield in rice. *Frontiers in genome editing*, 5, 1308228.

Motoche-Monar C, et al. (2023) gRNA Design: How Its Evolution Impacted on CRISPR/Cas9 Systems Refinement. *Biomolecules*, 13(12).

Liu Y, et al. (2022) CRISPR/Cas9-Targeted Mutagenesis of BnaFAE1 Genes Confers Low-Erucic Acid in *Brassica napus*. *Frontiers in plant science*, 13, 848723.