

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

Defining Citation: [PMID:24719468](#)

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

Funding: National Basic Research Program of China ;
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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: 20260807T042856+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 [SPARC SAWG](#) .

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).

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.

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.

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.