

Resource Summary Report

Generated by [dkNET](#) on Aug 25, 2026

pCS2-nCas9n

RRID:Addgene_47929

Type: Plasmid

Proper Citation

RRID:Addgene_47929

Plasmid Information

URL: <http://www.addgene.org/47929>

Proper Citation: RRID:Addgene_47929

Insert Name: nls-zcas9-nls

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:23918387](#)

Vector Backbone Description: Backbone Size:4100; Vector Backbone:pCS2+; Vector Types:Mammalian Expression, CRISPR; Bacterial Resistance:Ampicillin

Comments: Note from depositor: Although this plasmid produces smaller transcripts in addition to the expected one, the product mixture displays activity comparable to that from pT3TS-nCas9n. For more information on Chen and Wentz Lab CRISPR Plasmids please refer to: <http://www.addgene.org/crispr/Chen/>

Plasmid Name: pCS2-nCas9n

Record Creation Time: 20220422T222246+0000

Record Last Update: 20260815T081545+0000

Ratings and Alerts

No rating or validation information has been found for pCS2-nCas9n.

No alerts have been found for pCS2-nCas9n.

Data and Source Information

Usage and Citation Metrics

We found 103 mentions in open access literature.

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

Moses E, et al. (2026) An antagonistically pleiotropic gene regulates vertebrate growth, maturity, and lifespan. *Nature communications*, 17(1).

Hanzelova P, et al. (2026) An essential role for actinotrichia in zebrafish fin patterning and courtship behavior. *Development (Cambridge, England)*, 153(16).

Aleman AG, et al. (2026) Crip2 preserves hematopoietic stem and progenitor cell production through inhibition of Notch signals. *Development (Cambridge, England)*, 153(4).

Bergman M, et al. (2026) A dual role for cGAS in shaping cellular and organismal responses to genomic instability. *Genes & development*, 40(11-12), 852.

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.

Oonuma K, et al. (2025) CRISPR/Cas9-germline editing of *Biomphalaria glabrata*: A breakthrough in genetic modification of snails that transmit schistosomiasis. *Science advances*, 11(41), eadx5889.

Li W, et al. (2025) Genetic inactivation of the $\alpha 1$ adrenergic receptor prevents cerebral cavernous malformations in zebrafish. *eLife*, 13.

Batzel G, et al. (2025) CRISPR/Cas9 Knockout of Shell Matrix Protein 1 in the Slipper-Snail *Crepidula atrasolea*. *Journal of experimental zoology. Part B, Molecular and developmental evolution*, 344(5), 266.

Wu K, et al. (2025) Disrupting *Amh* and androgen signaling reveals their distinct roles in zebrafish gonadal differentiation and gametogenesis. *Communications biology*, 8(1), 371.

Basol M, et al. (2025) Loss of carbohydrate sulfotransferase 6 function leads to macular corneal dystrophy phenotypes and skeletal defects in zebrafish. *The FEBS journal*, 292(2), 373.

Giamundo G, et al. (2025) Ezrin defines TSC complex activation at endosomal compartments through EGFR-AKT signaling. *eLife*, 13.

Ciapaite J, et al. (2025) Broad Vitamin B6-Related Metabolic Disturbances in a Zebrafish Model of Hypophosphatasia (TNSALP-Deficiency). *International journal of molecular sciences*, 26(7).

Nobilleau F, et al. (2025) RFC1 regulates the expansion of neural progenitors in the developing zebrafish cerebellum. *Nature communications*, 16(1), 6019.

S V, et al. (2025) A pro-angiogenic and hypoxic zebrafish model as a novel platform for anti-angiogenic drug testing. *Biology open*, 14(8).

Simsek MF, et al. (2024) The vertebrate segmentation clock drives segmentation by stabilizing Dusp phosphatases in zebrafish. *Developmental cell*.

Li W, et al. (2024) Genetic Inactivation of the α_1 adrenergic receptor prevents Cerebral Cavernous Malformations in zebrafish. *bioRxiv : the preprint server for biology*.

Torraca V, et al. (2024) Transcriptional profiling of zebrafish identifies host factors controlling susceptibility to *Shigella flexneri*. *Disease models & mechanisms*, 17(1).

Xia J, et al. (2024) Inhibition of PIKfyve Leads to Lysosomal Disorders via Dysregulation of mTOR Signaling. *Cells*, 13(11).

Kozmik Z, et al. (2024) Ancestral role of Pax6 in chordate brain regionalization. *Frontiers in cell and developmental biology*, 12, 1431337.

Yilmaz O, et al. (2023) Genomic disturbance of vitellogenin 2 (vtg2) leads to vitellin membrane deficiencies and significant mortalities at early stages of embryonic development in zebrafish (*Danio rerio*). *Scientific reports*, 13(1), 18795.