

Resource Summary Report

Generated by [NIF](#) on Jul 31, 2026

[DR274](#)

RRID:Addgene_42250

Type: Plasmid

Proper Citation

RRID:Addgene_42250

Plasmid Information

URL: <http://www.addgene.org/42250>

Proper Citation: RRID:Addgene_42250

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:23360964](#)

Vector Backbone Description: Backbone Marker:Joung lab DR274; Backbone Size:2147; Vector Backbone:Zebrafish-gRNA-ExpressionVector; Vector Types:Worm Expression, CRISPR, zebrafish expression; Bacterial Resistance:Kanamycin

Plasmid Name: DR274

Record Creation Time: 20220422T222218+0000

Record Last Update: 20260725T074659+0000

Ratings and Alerts

No rating or validation information has been found for DR274.

No alerts have been found for DR274.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 211 mentions in open access literature.

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

Matsuoka Y, et al. (2025) Establishment of CRISPR/Cas9-based knock-in in a hemimetabolous insect: targeted gene tagging in the cricket *Gryllus bimaculatus*. *Development (Cambridge, England)*, 152(1).

Zhang L, et al. (2025) Vitellogenin receptor mediates heat adaptability of oocyte development in mud crabs and zebrafish. *Nature communications*, 16(1), 3722.

Eggeler F, et al. (2025) Meteorins regulate the formation of the left-right organizer and the establishment of vertebrate body asymmetry. *eLife*, 14.

Richter A, et al. (2025) The master male sex determinant *Gdf6Y* of the turquoise killifish arose through allelic neofunctionalization. *Nature communications*, 16(1), 540.

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.

Akiyama C, et al. (2025) Normal locomotion in zebrafish lacking the sodium channel *Nav1.4* suggests that the need for muscle action potentials is not universal. *PLoS biology*, 23(4), e3003137.

Gierten J, et al. (2025) Natural genetic variation quantitatively regulates heart rate and dimension. *Nature communications*, 16(1), 4062.

Janati-Idrissi S, et al. (2024) Looking for a needle in a haystack: de novo phenotypic target identification reveals Hippo pathway-mediated miR-202 regulation of egg production. *Nucleic acids research*, 52(2), 738.

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

Sunny SS, et al. (2024) *Ovol2* promoter mutations in mice and human illuminate species-specific phenotypic divergence. *Human molecular genetics*, 33(6), 491.

Lawir DF, et al. (2024) Antagonistic interactions safeguard mitotic propagation of genetic and epigenetic information in zebrafish. *Communications biology*, 7(1), 31.

Lebret V, et al. (2024) Microhomology-mediated end-joining Knock-In approaches to delete the allergenic domain of trout parvalbumin beta-1. Preliminary results in F0 animals and feedback. *Open research Europe*, 4, 235.

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

Aguillon R, et al. (2024) *CLOCK* evolved in cnidaria to synchronize internal rhythms with diel environmental cues. *eLife*, 12.

Wang C, et al. (2024) *ZSWIM4* regulates embryonic patterning and BMP signaling by promoting nuclear *Smad1* degradation. *EMBO reports*, 25(2), 646.

Barzi M, et al. (2024) A humanized mouse model for adeno-associated viral gene therapy. *Nature communications*, 15(1), 1955.

Grieve LM, et al. (2024) Downregulation of Glis3 in INS1 cells exposed to chronically elevated glucose contributes to glucotoxicity-associated β cell dysfunction. *Islets*, 16(1), 2344622.

Spikol ED, et al. (2024) Genetically defined nucleus incertus neurons differ in connectivity and function. *eLife*, 12.

Cömert C, et al. (2024) HSP60 chaperone deficiency disrupts the mitochondrial matrix proteome and dysregulates cholesterol synthesis. *Molecular metabolism*, 88, 102009.

Kiyomitsu A, et al. (2024) Ran-GTP assembles a specialized spindle structure for accurate chromosome segregation in medaka early embryos. *Nature communications*, 15(1), 981.