Resource Summary Report

Generated by dkNET on Aug 21, 2026

pJC53.2

RRID:Addgene_26536
Type: Plasmid

Proper Citation

RRID:Addgene_26536

Plasmid Information

URL: http://www.addgene.org/26536

Proper Citation: RRID:Addgene_26536

Bacterial Resistance: Chloramphenicol and Kanamycin

Defining Citation: PMID:20967238

Vector Backbone Description: Backbone Size:3240; Vector Backbone:pJC53.2; Vector Types:T/A Cloning Vector for dsRNA generation and the generation of sense and anti-sense probes; Bacterial Resistance:Chloramphenicol and Kanamycin

Comments: For cloning taq polymerase-amplified PCR products, digest vector with Eam1105I, purify, ligate with PCR product, and use to transform DH5-alpha cells (or strain of choice). dsRNA can be generated by in vitro transcription with T7 RNA polymerase and single stranded probes can be generated with SP6 or T3 RNA polymerases.

Plasmid Name: pJC53.2

Record Creation Time: 20220422T222119+0000

Record Last Update: 20260815T081253+0000

Ratings and Alerts

No rating or validation information has been found for pJC53.2.

No alerts have been found for pJC53.2.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 18 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET .

Puckelwaldt O, et al. (2026) Single-cell transcriptomics identifies a p21-activated kinase important for survival of the zoonotic parasite Fasciola hepatica. iScience, 29(8), 116778.

Chai C, et al. (2025) Explosive cytotoxicity of 'ruptoblasts' bridges hormonal surveillance and immune defense. bioRxiv : the preprint server for biology.

Avalos Najera PN, et al. (2025) Extracellular??Vesicles Derived From Regenerating Tissue Promote Stem Cell Proliferation in the Planarian Schmidtea mediterranea. Journal of extracellular biology, 4(3), e70040.

Li X, et al. (2024) Rhodopsin orphan GPCR20 interacts with neuropeptides and directs growth, sexual differentiation, and egg production in female Schistosoma mansoni. Microbiology spectrum, 12(1), e0219323.

Nanes Sarfati D, et al. (2024) Coordinated wound responses in a regenerative animal-algal holobiont. Nature communications, 15(1), 4032.

Chai C, et al. (2024) Flexible use of conserved motif vocabularies constrains genome access in cell type evolution. bioRxiv : the preprint server for biology.

Avalos PN, et al. (2024) Extracellular vesicles promote proliferation in an animal model of regeneration. bioRxiv : the preprint server for biology.

Hall RN, et al. (2024) A genetic and microscopy toolkit for manipulating and monitoring regeneration in Macrostomum lignano. Cell reports, 43(11), 114892.

Li X, et al. (2023) Molecular characterization of Smtdc-1 and Smddc-1 discloses roles as male-competence factors for the sexual maturation of Schistosoma mansoni females. Frontiers in cellular and infection microbiology, 13, 1173557.

Fan Y, et al. (2023) Ultrafast and long-range coordination of wound responses is essential for whole-body regeneration. bioRxiv : the preprint server for biology.

Bray SR, et al. (2023) Adaptive robustness through incoherent signaling mechanisms in a regenerative brain. bioRxiv : the preprint server for biology.

Khan UW, et al. (2022) Somatic regulation of female germ cell regeneration and development in planarians. Cell reports, 38(11), 110525.

Forsthoefel DJ, et al. (2020) Cell-type diversity and regionalized gene expression in the planarian intestine. eLife, 9.

Tarashansky AJ, et al. (2019) Self-assembling manifolds in single-cell RNA sequencing data. eLife, 8.

Rozario T, et al. (2019) Region-specific regulation of stem cell-driven regeneration in tapeworms. eLife, 8.

Ross KG, et al. (2018) SoxB1 Activity Regulates Sensory Neuron Regeneration, Maintenance, and Function in Planarians. Developmental cell, 47(3), 331.

Collins JN, et al. (2017) Methods for Studying the Germline of the Human Parasite Schistosoma mansoni. Methods in molecular biology (Clifton, N.J.), 1463, 35.

Chong T, et al. (2013) A sex-specific transcription factor controls male identity in a simultaneous hermaphrodite. Nature communications, 4, 1814.