

# Resource Summary Report

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

## pLoxP-DHFR-mCherry

RRID:Addgene\_70147

Type: Plasmid

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### Proper Citation

RRID:Addgene\_70147

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### Plasmid Information

**URL:** <http://www.addgene.org/70147>

**Proper Citation:** RRID:Addgene\_70147

**Insert Name:** a selectable dihydrofolate reductase-thymidylate synthase marker

**Organism:** Toxoplasma gondii

**Bacterial Resistance:** Ampicillin

**Defining Citation:** [PMID:26755159](#)

**Vector Backbone Description:** Backbone Marker:invitrogen; Backbone Size:2100; Vector Backbone:pUC19; Vector Types:Expression in Toxoplasma gondii; Bacterial Resistance:Ampicillin

**Comments:** Kevin Brown and Shaojun Long jointly built the plasmid in David Sibley lab, for CRISPR genetic operations.

**Plasmid Name:** pLoxP-DHFR-mCherry

**Record Creation Time:** 20220422T222433+0000

**Record Last Update:** 20260815T081903+0000

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### Ratings and Alerts

No rating or validation information has been found for pLoxP-DHFR-mCherry.

No alerts have been found for pLoxP-DHFR-mCherry.

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### Data and Source Information

## Usage and Citation Metrics

We found 10 mentions in open access literature.

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

Amieva R, et al. (2025) NcROP2 deletion reduces *Neospora caninum* virulence by altering parasite stage differentiation and hijacking host immune response. *Frontiers in immunology*, 16, 1617570.

Wang QQ, et al. (2023) Functional screening reveals *Toxoplasma* prenylated proteins required for endocytic trafficking and rhoptry protein sorting. *mBio*, 14(4), e0130923.

Rico-San Román L, et al. (2022) NcGRA7 and NcROP40 Play a Role in the Virulence of *Neospora caninum* in a Pregnant Mouse Model. *Pathogens (Basel, Switzerland)*, 11(9).

Seizova S, et al. (2022) Transcriptional modification of host cells harboring *Toxoplasma gondii* bradyzoites prevents IFN gamma-mediated cell death. *Cell host & microbe*, 30(2), 232.

Wang X, et al. (2021) Cryo-EM structure of cortical microtubules from human parasite *Toxoplasma gondii* identifies their microtubule inner proteins. *Nature communications*, 12(1), 3065.

Ma CI, et al. (2021) Auranofin Resistance in *Toxoplasma gondii* Decreases the Accumulation of Reactive Oxygen Species but Does Not Target Parasite Thioredoxin Reductase. *Frontiers in cellular and infection microbiology*, 11, 618994.

Kongsomboonvech AK, et al. (2020) Naïve CD8 T cell IFN $\gamma$  responses to a vacuolar antigen are regulated by an inflammasome-independent NLRP3 pathway and *Toxoplasma gondii* ROP5. *PLoS pathogens*, 16(8), e1008327.

Mukhopadhyay D, et al. (2020) *Toxoplasma* GRA15 and GRA24 are important activators of the host innate immune response in the absence of TLR11. *PLoS pathogens*, 16(5), e1008586.

Arranz-Solís D, et al. (2018) *Toxoplasma* CRISPR/Cas9 constructs are functional for gene disruption in *Neospora caninum*. *International journal for parasitology*, 48(8), 597.

Long S, et al. (2016) Analysis of Noncanonical Calcium-Dependent Protein Kinases in *Toxoplasma gondii* by Targeted Gene Deletion Using CRISPR/Cas9. *Infection and immunity*, 84(5), 1262.