

# Resource Summary Report

Generated by [RRID](#) on Aug 20, 2026

## pUPRT::DHFR-D

RRID:Addgene\_58528

Type: Plasmid

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### Proper Citation

RRID:Addgene\_58528

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### Plasmid Information

**URL:** <http://www.addgene.org/58528>

**Proper Citation:** RRID:Addgene\_58528

**Insert Name:** DHFR cassette

**Organism:** T. gondii

**Bacterial Resistance:** Ampicillin

**Defining Citation:** [PMID:24825012](#)

**Vector Backbone Description:** Backbone Marker:Invitrogen; Backbone Size:4555; Vector Backbone:pDEST R4-R3 Vector II; Vector Types:Gateway Cloning; Bacterial Resistance:Ampicillin

**Plasmid Name:** pUPRT::DHFR-D

**Relevant Mutation:** pyrimethamine resistant

**Record Creation Time:** 20220422T222339+0000

**Record Last Update:** 20260815T081717+0000

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### Ratings and Alerts

No rating or validation information has been found for pUPRT::DHFR-D.

No alerts have been found for pUPRT::DHFR-D.

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### Data and Source Information

**Source:** [Addgene](#)

## Usage and Citation Metrics

We found 11 mentions in open access literature.

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

Geng XL, et al. (2025) Proline dehydrogenase, a rate-limiting catabolic enzyme, affecting the growth and pathogenicity of *Toxoplasma gondii* tachyzoites by regulating the proline metabolism and mitochondrial function of the parasite. *Parasites & vectors*, 18(1), 309.

Zhang X, et al. (2025) BFD2 mediates inflammation, apoptosis, and pre-anxiety-like behaviors induced by acute *Toxoplasma gondii* infection. *PLoS neglected tropical diseases*, 19(9), e0013428.

Bitew MA, et al. (2024) Two *Toxoplasma gondii* putative pore-forming proteins, GRA47 and GRA72, influence small molecule permeability of the parasitophorous vacuole. *mBio*, 15(3), e0308123.

Bitew MA, et al. (2023) GRA47 and GRA72 are *Toxoplasma gondii* pore-forming proteins that influence small molecule permeability of the parasitophorous vacuole. *bioRxiv : the preprint server for biology*.

Butterworth S, et al. (2023) High-throughput identification of *Toxoplasma gondii* effector proteins that target host cell transcription. *Cell host & microbe*, 31(10), 1748.

Zhu L, et al. (2022) *Toxoplasma gondii* Rhoptry Protein 7 (ROP7) Interacts with NLRP3 and Promotes Inflammasome Hyperactivation in THP-1-Derived Macrophages. *Cells*, 11(10).

Wang Y, et al. (2020) Genome-wide screens identify *Toxoplasma gondii* determinants of parasite fitness in IFN $\gamma$ -activated murine macrophages. *Nature communications*, 11(1), 5258.

Sangaré LO, et al. (2019) In Vivo CRISPR Screen Identifies TgWIP as a *Toxoplasma* Modulator of Dendritic Cell Migration. *Cell host & microbe*, 26(4), 478.

Paredes-Santos T, et al. (2019) The GRA17 Parasitophorous Vacuole Membrane Permeability Pore Contributes to Bradyzoite Viability. *Frontiers in cellular and infection microbiology*, 9, 321.

Pan M, et al. (2019) Identification of Novel Dense-Granule Proteins in *Toxoplasma gondii* by Two Proximity-Based Biotinylation Approaches. *Journal of proteome research*, 18(1), 319.

Shen B, et al. (2017) Development of CRISPR/Cas9 for Efficient Genome Editing in *Toxoplasma gondii*. *Methods in molecular biology* (Clifton, N.J.), 1498, 79.