

Resource Summary Report

Generated by [NIF](#) on Sep 18, 2026

pSAG1::CAS9-U6::sgUPRT

RRID:Addgene_54467

Type: Plasmid

Proper Citation

RRID:Addgene_54467

Plasmid Information

URL: <http://www.addgene.org/54467>

Proper Citation: RRID:Addgene_54467

Insert Name: SAG1 5' UTR

Organism: Toxoplasma gondii

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:24825012](#)

Vector Backbone Description: Backbone Marker:Agilent; Vector Backbone:pBlueScript; Vector Types:CRISPR, Toxoplasma expression; Bacterial Resistance:Ampicillin

Plasmid Name: pSAG1::CAS9-U6::sgUPRT

Record Creation Time: 20220422T222319+0000

Record Last Update: 20260912T092850+0000

Ratings and Alerts

No rating or validation information has been found for pSAG1::CAS9-U6::sgUPRT.

No alerts have been found for pSAG1::CAS9-U6::sgUPRT.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 69 mentions in open access literature.

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

Sheng K, et al. (2025) Phosphatase UBLCP1 is required for the growth, virulence and mitochondrial integrity of *Toxoplasma gondii*. *Parasites & vectors*, 18(1), 122.

Claywell JE, et al. (2025) Phospho-relay feedback loops control egress vs. intracellular development in *Toxoplasma gondii*. *Cell reports*, 44(2), 115260.

Kashyap P, et al. (2025) Deletion of splicing factor Cdc5 in *Toxoplasma* disrupts transcriptome integrity, induces abortive bradyzoite formation, and prevents acute infection in mice. *Nature communications*, 16(1), 3769.

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.

Liang Y, et al. (2025) A Major Facilitator Superfamily Transporter Is Critical for the Metabolism and Biogenesis of the Apicoplast. *Pathogens (Basel, Switzerland)*, 14(8).

Geng X, et al. (2025) *Toxoplasma gondii* Type I TR and ROP16 Synergistically Downregulate IL-12 to Inhibit Host Reactive Oxygen Species Production. *Pathogens (Basel, Switzerland)*, 14(2).

Aswale KR, et al. (2025) RNA triphosphatase-mediated mRNA capping is essential for maintaining transcript homeostasis and the survival of *Toxoplasma gondii*. *Nature communications*, 16(1), 5452.

Akuh OA, et al. (2025) Reconstituted ferredoxin-MEP pathway of Apicomplexa in *Escherichiacoli* as an in situ screening platform for inhibitors and essential enzyme mutations. *The Journal of biological chemistry*, 301(11), 110726.

Rinkenberger N, et al. (2024) Susceptibility of *Toxoplasma gondii* to autophagy in human cells relies on multiple interacting parasite loci. *mBio*, 15(1), e0259523.

Xia J, et al. (2024) An apicoplast-localized deubiquitinase contributes to the cell growth and apicoplast homeostasis of *Toxoplasma gondii*. *Veterinary research*, 55(1), 10.

Sun M, et al. (2024) TBC9, an essential TBC-domain protein, regulates early vesicular transport and IMC formation in *Toxoplasma gondii*. *Communications biology*, 7(1), 596.

Tetzlaff S, et al. (2024) Small RNAs from mitochondrial genome recombination sites are incorporated into *T. gondii* mitoribosomes. *eLife*, 13.

Zwahlen SM, et al. (2024) A myxozoan-specific protein is an essential membrane-anchoring component of the succinate dehydrogenase complex in *Toxoplasma* parasites. *Open biology*, 14(6), 230463.

Bando H, et al. (2024) *Toxoplasma gondii* chitinase-like protein TgCLP1 regulates the parasite cyst burden. *Frontiers in cellular and infection microbiology*, 14, 1359888.

Lyu C, et al. (2024) Two enzymes contribute to citrate production in the mitochondrion of *Toxoplasma gondii*. *The Journal of biological chemistry*, 300(8), 107565.

Kellermeier JA, et al. (2024) Myosin F controls actin organization and dynamics in *Toxoplasma gondii*. *Molecular biology of the cell*, 35(4), ar57.

Hayward JA, et al. (2023) A screen of drug-like molecules identifies chemically diverse electron transport chain inhibitors in apicomplexan parasites. *PLoS pathogens*, 19(7), e1011517.

Fu J, et al. (2023) Apicoplast biogenesis mediated by ATG8 requires the ATG12-ATG5-ATG16L and SNAP29 complexes in *Toxoplasma gondii*. *Autophagy*, 19(4), 1258.

Wan W, et al. (2023) The *Toxoplasma* micropore mediates endocytosis for selective nutrient salvage from host cell compartments. *Nature communications*, 14(1), 977.