Resource Summary Report

Generated by SPARC SAWG on Aug 31, 2026

pTEC27

RRID:Addgene_30182
Type: Plasmid

Proper Citation

RRID:Addgene_30182

Plasmid Information

URL: http://www.addgene.org/30182

Proper Citation: RRID:Addgene_30182

Insert Name: Mycobacterium Strong Promoter (MSP)

Organism: M. marinum

Bacterial Resistance: Hygromycin

Defining Citation: PMID:23680983

Vector Backbone Description: Backbone Marker:Ramakrishnan et al., 2000; Backbone Size:4981; Vector Backbone:pFPV27; Vector Types:Mycobacteria expression; Bacterial Resistance:Hygromycin

Comments: This plasmid was derived from pMSP12::GFP by interrupting the aph gene (removing a small ~300bp NsiI fragment) and inserting the gene for Hygromycin resistance. The GFP was then replaced with tdTomato. The tdTomato ORF is present at bp# 102-1532.

Plasmid Name: pTEC27

Record Creation Time: 20220422T222132+0000

Record Last Update: 20260829T080342+0000

Ratings and Alerts

No rating or validation information has been found for pTEC27.

No alerts have been found for pTEC27.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 32 mentions in open access literature.

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

Herbath M, et al. (2026) VEGFR Blockade Reduces Mycobacterium tuberculosis-Induced Lung Pathology in Immunocompromised Mice. Cells, 15(7).

Singh S, et al. (2026) A bioluminescence-based chemical screen identifies a bactericidal naphthalen-1-ylmethanamine scaffold targeting MmpL3 in Mycobacterium abscessus. Cell reports, 45(5), 117311.

Daher W, et al. (2025) Deletion of ESX-3 and ESX-4 secretion systems in Mycobacterium abscessus results in highly impaired pathogenicity. Communications biology, 8(1), 166.

Hayes MI, et al. (2025) Mycobacteria trehalose dimycolate interactions with host Mincle remodel blood-brain barrier junctions for brain invasion. Cell reports, 44(12), 116661.

Laaker CJ, et al. (2025) Perineural immune environment of olfactory nerves is reshaped by neuroinflammatory drainage and connects to ethmoid bone marrow. Science advances, 11(26), eadt9591.

Rivault A, et al. (2025) HIV-1 Tat favors the multiplication of Mycobacterium tuberculosis and Toxoplasma by inhibiting clathrin-mediated endocytosis and autophagy. PLoS pathogens, 21(9), e1013183.

Peña-Díaz S, et al. (2024) Glycogen synthase kinase 3 inhibition controls Mycobacterium tuberculosis infection. iScience, 27(8), 110555.

Kumar R, et al. (2023) Divergent proinflammatory immune responses associated with the differential susceptibility of cattle breeds to tuberculosis. Frontiers in immunology, 14, 1199092.

Hammarén MM, et al. (2023) In vitro and ex vivo proteomics of Mycobacterium marinum biofilms and the development of biofilm-binding synthetic nanobodies. mSystems, 8(3), e0107322.

Courbon GM, et al. (2023) Mechanism of mycobacterial ATP synthase inhibition by squaramides and second generation diarylquinolines. The EMBO journal, 42(15), e113687.

Gill CP, et al. (2023) The MprF homolog LysX synthesizes lysyl-diacylglycerol contributing to antibiotic resistance and virulence. Microbiology spectrum, 11(5), e0142923.

Nguyen TQ, et al. (2022) Synergistic Effect of Q203 Combined with PBTZ169 against Mycobacterium tuberculosis. Antimicrobial agents and chemotherapy, 66(12), e0044822.

Lagune M, et al. (2022) The ESX-4 substrates, EsxU and EsxT, modulate Mycobacterium abscessus fitness. PLoS pathogens, 18(8), e1010771.

Daher W, et al. (2022) Glycopeptidolipid glycosylation controls surface properties and pathogenicity in Mycobacterium abscessus. Cell chemical biology, 29(5), 910.

Sarrazin M, et al. (2022) Synthesis and Biological Characterization of Fluorescent Cyclipostins and Cyclophostin Analogues: New Insights for the Diagnosis of Mycobacterial-Related Diseases. ACS infectious diseases, 8(12), 2564.

Gilpin TE, et al. (2021) Mycobacterium bovis Bacillus Calmette-Guérin-Infected Dendritic Cells Induce TNF-?-Dependent Cell Cluster Formation That Promotes Bacterial Dissemination through an In Vitro Model of the Blood-Brain Barrier. Journal of immunology (Baltimore, Md. : 1950), 207(4), 1065.

Tao W, et al. (2021) A novel optical biosensor for in situ and small-scale monitoring of bacterial transport in saturated columns. Journal of environmental management, 289, 112452.

Tran W, et al. (2021) Synthetic Sansanmycin Analogues as Potent Mycobacterium tuberculosis Translocase I Inhibitors. Journal of medicinal chemistry, 64(23), 17326.

Osman MM, et al. (2020) Mycobacterium marinum phthiocerol dimycocerosates enhance macrophage phagosomal permeabilization and membrane damage. PloS one, 15(7), e0233252.

Batalha IL, et al. (2019) Polymeric nanobiotics as a novel treatment for mycobacterial infections. Journal of controlled release : official journal of the Controlled Release Society, 314, 116.