

Resource Summary Report

Generated by [PRECISE-TBI](#) on Aug 9, 2026

pMSP3535

RRID:Addgene_46886

Type: Plasmid

Proper Citation

RRID:Addgene_46886

Plasmid Information

URL: <http://www.addgene.org/46886>

Proper Citation: RRID:Addgene_46886

Bacterial Resistance: Erythromycin

Defining Citation: [PMID:10964628](#)

Vector Backbone Description: Backbone Size:8353; Vector Backbone:pMSP3535; Vector Types:Bacterial Expression, Nisin-inducible expression; Gram-positive Bacterial Shuttle Vector; Bacterial Resistance:Erythromycin

Comments: This plasmid utilizes the NIsin Controlled Expression (NICE) system. NICE® is a registered trademark of NIZO food research BV, P.O.Box 20, 6710 BA Ede, The Netherlands. pMSP3535 contains the Nisin-inducible PnisA promoter, and the pAMB1 replicon for expression in gram-positive bacteria. For protein expression in *E. faecalis*, induce with 10-25 ng/mL nisin (Sigma, N-5764). See associated article for instructions on how to make nisin solution. Note: Nucleotide sequence encoding the signal sequence and one-third of the mature NisA (nisin) peptide remains associated with the PnisA promoter. The depositing laboratory recommends adding of a Stop codon to the 5' end of inserted sequences to avoid unintentional gene fusions. Addgene's quality control sequencing finds discrepancies with the depositor's provided sequence which includes a mutation in RepE- F229L. This however is thought to not affect plasmid function.

Plasmid Name: pMSP3535

Record Creation Time: 20220422T222241+0000

Record Last Update: 20260808T081726+0000

Ratings and Alerts

No rating or validation information has been found for pMSP3535.

No alerts have been found for pMSP3535.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 6 mentions in open access literature.

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

Lautenschläger N, et al. (2024) Expanding the genetic toolbox for the obligate human pathogen *Streptococcus pyogenes*. *Frontiers in bioengineering and biotechnology*, 12, 1395659.

Funsten MC, et al. (2023) Microbiota-dependent proteolysis of gluten subverts diet-mediated protection against type 1 diabetes. *Cell host & microbe*, 31(2), 213.

Mahendra C, et al. (2020) Broad-spectrum anti-CRISPR proteins facilitate horizontal gene transfer. *Nature microbiology*, 5(4), 620.

Keogh D, et al. (2018) Extracellular Electron Transfer Powers *Enterococcus faecalis* Biofilm Metabolism. *mBio*, 9(2).

Armbruster KM, et al. (2017) Identification of the Lyso-Form N-Acyl Intramolecular Transferase in Low-GC Firmicutes. *Journal of bacteriology*, 199(11).

Hürlimann LM, et al. (2016) The Heterodimeric ABC Transporter EfrCD Mediates Multidrug Efflux in *Enterococcus faecalis*. *Antimicrobial agents and chemotherapy*, 60(9), 5400.