

Resource Summary Report

Generated by [NIF](#) on Jul 30, 2026

pMDS2

RRID:Addgene_239459

Type: Plasmid

Proper Citation

RRID:Addgene_239459

Plasmid Information

URL: <http://www.addgene.org/239459>

Proper Citation: RRID:Addgene_239459

Bacterial Resistance: Spectinomycin and Streptomycin

Defining Citation: [PMID:40864707](#)

Vector Backbone Description: Vector Backbone:pMCY2; Vector Types:Bacterial Expression, Plant Expression; Bacterial Resistance:Spectinomycin and Streptomycin

Comments: Two cloning steps are required for the generation of a "promoter:3xHA:VENUS:GENE:2A:mTurqN7" fragment: A) Cloning of promoter: Primer design: Forward Primer: 5'GATCGGGGCGCGCCCTCGAG+PROMOTER SPECIFIC SEQUENCE 3' Reverse primer: 5' GATGGGCATTAACATCTTTTAC+PROMOTER SPECIFIC SEQUENCE 3' Digest plasmid with SapI Clean Perform Gibson Assembly Transform E. coli and select positive colonies LB+Sp/Sm (blue/white selection) B) Cloning of gene fragment: Forward Primer: 5'GTTCTGGTGGGGGTGGCTCC+ GENE SPECIFIC SEQUENCE (starting from the ATG) 3' Reverse primer: 5' AACAGCTGGCCCGAGCCACC+GENE SPECIFIC SEQUENCE (without STOP Codon) 3' Digest plasmid with Bsu36I and perform gel purification Perform Gibson Assembly Transform E. coli and select positive colonies LB+Sp/Sm The discrepancies between the depositor's sequence and Addgene's sequences have no functional consequences.

Plasmid Name: pMDS2

Record Creation Time: 20250903T060609+0000

Record Last Update: 20260725T080431+0000

Ratings and Alerts

No rating or validation information has been found for pMDS2.

No alerts have been found for pMDS2.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Banda J, et al. (2025) Elucidating tissue and subcellular specificity of the entire SUMO network reveals how stress responses are fine-tuned in a eukaryote. Science advances, 11(35), eadw9153.