

# Resource Summary Report

Generated by [kravitz2](#) on Aug 10, 2026

## CJW4617

RRID:Addgene\_177118

Type: Plasmid

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### Proper Citation

RRID:Addgene\_177118

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### Plasmid Information

**URL:** <http://www.addgene.org/177118>

**Proper Citation:** RRID:Addgene\_177118

**Insert Name:** MG1655 PlacZYA::Plac-gfp-muNS-kan

**Bacterial Resistance:** Kanamycin

**Defining Citation:** [PMID:24361104](#)

**Vector Backbone Description:** Vector Backbone:none; Vector Types:; Bacterial Resistance:Kanamycin

**Comments:** GFP-muNS expression is under the control of Plac promoter integrated into the endogenous lac locus. The native lac operon (lacZYA) is deleted. Kanamycin resistance cassette is inserted downstream of the gfp-muNS gene for cloning purposes. Cloning method: Lambda RED recombination. The gfp-?NS fragment was amplified from plasmid pER12 (pBAD322A-gfp-?NS), which encodes an N-terminal GFP fusion to residues 471-721 of ?NS (Broering et al., 2005) and then digested by KpnI/XhoI. The nptI gene was amplified from pKD4 plasmid and digested by XhoI/SmaI. Then, gfp-?NS and nptI gene fragments were triple ligated into the pKS plasmid. The resulting plasmid was used as a PCR template to generate a gfp-?NS-nptI fragment with flanking regions complementary to lacI and cynX, respectively. This fragment was then used to replace the lac operon (lacZYA) by one-step ?-recombination (Datsenko and Wanner, 2000). The resulting gfp-?NS-nptI replacement of lacZYA was transduced back into MG1655 by P1-phage to generate strain CJW4617. See Parry et al., 2014 for more details. This strain doesn't contain any plasmid.

**Plasmid Name:** CJW4617

**Record Creation Time:** 20220422T222022+0000

**Record Last Update:** 20260808T081310+0000

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## Ratings and Alerts

No rating or validation information has been found for CJW4617.

No alerts have been found for CJW4617.

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## Data and Source Information

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

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## Usage and Citation Metrics

We have not found any literature mentions for this resource.