Resource Summary Report

Generated by RRID on Aug 20, 2026

CJW4617

RRID:Addgene_177118
Type: Plasmid

Proper Citation

RRID:Addgene_177118

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 casette 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: 20260815T081105+0000

Ratings and Alerts

No rating or validation information has been found for CJW4617.

No alerts have been found for CJW4617.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We have not found any literature mentions for this resource.