

Resource Summary Report

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

RF12

RRID:Addgene_62077

Type: Plasmid

Proper Citation

RRID:Addgene_62077

Plasmid Information

URL: <http://www.addgene.org/62077>

Proper Citation: RRID:Addgene_62077

Insert Name: none

Bacterial Resistance: None

Defining Citation: [PMID:26577727](#)

Vector Backbone Description: Vector Backbone:none; Vector Types;; Bacterial Resistance:None

Comments: Genotype = trpA trpB Precursor strain = BL21 CodonPlus (DE3)-RIL Selective amino acid labeling (and/or requirement) = Trp### ##RF12 strain requires Trp for growth in M63 minimal medium. For effective Trp labeling of a recombinant protein, the presence of 0.4-1 mM Tyr in growth medium to repress the tyrB gene is recommended. This strategy can only be applicable for a short-term cultivation but not suitable for a long-term cultivation for heterologous expression of foreign genes [Methods 55, 370-378 (2011)]. Each target gene was deleted from the chromosome of BL21 (DE3) E. coli strain using ??-Red recombination system. Supplemental documents contain a list of PCR primers used for verification of each knocked-out gene as well as an image showing PCR results for this strain. This work is supported in part by JSPS-NSF International Collaborations in Chemistry (ICC) research grant.

Plasmid Name: RF12

Record Creation Time: 20220422T222355+0000

Record Last Update: 20260725T074939+0000

Ratings and Alerts

No rating or validation information has been found for RF12.

No alerts have been found for RF12.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

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

Quispe Haro JJ, et al. (2024) Optogenetic Control of Bacterial Cell-Cell Adhesion Dynamics: Unraveling the Influence on Biofilm Architecture and Functionality. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 11(23), e2310079.

Zhou Y, et al. (2024) Origin of the multi-phasic quenching dynamics in the BLUF domains across the species. Nature communications, 15(1), 623.