

Resource Summary Report

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

RF5

RRID:Addgene_62073

Type: Plasmid

Proper Citation

RRID:Addgene_62073

Plasmid Information

URL: <http://www.addgene.org/62073>

Proper Citation: RRID:Addgene_62073

Insert Name: none

Bacterial Resistance: None

Defining Citation: [PMID:26577727](#)

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

Comments: Genotype = aspC tyrB hisG Precursor strain = RF4 modified from the parent Escherichia coli BL21 CodonPlus (DE3)-RIL Selective amino acid labeling (and/or requirement) = Asp++++, Tyr, (Phe), His ++++RF4, RF5, and RF13 strains have knockouts in both aspC and tyrB genes and therefore require the presence of L-Asp (but not L-Glu) for growth in M63 minimal medium. These strains can be used for selective labeling of selected aromatic amino acid(s) such as Tyr (RF4, RF5, RF13) and/or Trp (RF13). We have NOT tested if these strains could also be used for selective Asp labeling studies (under investigation). 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: RF5

Record Creation Time: 20220422T222355+0000

Record Last Update: 20260725T074939+0000

Ratings and Alerts

No rating or validation information has been found for RF5.

No alerts have been found for RF5.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.