Resource Summary Report

Generated by dkNET on Aug 22, 2026

RF4

RRID:Addgene_62072
Type: Plasmid

Proper Citation

RRID:Addgene_62072

Plasmid Information

URL: http://www.addgene.org/62072

Proper Citation: RRID:Addgene_62072

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 Precursor strain = RF3 modified from the parent Escherichia coli BL21 CodonPlus (DE3)-RIL Selective amino acid labeling (and/or requirement) = Asp++++, Tyr, (Phe) ++++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: RF4

Record Creation Time: 20220422T222355+0000

Record Last Update: 20260815T081749+0000

Ratings and Alerts

No rating or validation information has been found for RF4.

No alerts have been found for RF4.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We have not found any literature mentions for this resource.