

Resource Summary Report

Generated by [RRID](#) on Aug 20, 2026

[pAT222](#)

RRID:Addgene_40942

Type: Plasmid

Proper Citation

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Plasmid Information

URL: <http://www.addgene.org/40942>

Proper Citation: RRID:Addgene_40942

Insert Name: GFP-LacI**

Organism: E. coli

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:21724830](#)

Vector Backbone Description: Backbone Marker:Andrew W. Murray Lab, UCSF (Straight, Sedat, & Murray, 1998. PMID: 9813090); Backbone Size:5650; Vector Backbone:pAFS135; Vector Types:Yeast Expression; Bacterial Resistance:Ampicillin

Comments: The plasmid pAFS135 (Straight, Sedat, and Murray, 1998) contains GFP(S65T, V163A)-LacI(P3Y, del C-terminal 11 aa)-SV40 NLS under the control of a HIS3 promoter fragment. To construct pAT123, the HIS3 marker of AFS135 was replaced with a Scal-DraIII fragment from RS405 containing LEU2 (a kind gift from Karine Dubrana and Susan Gasser). The plasmid pAT222 was obtained by site-directed mutagenesis of pAT123 to create GFP-LacI**, using the primers (base mutations in lowercase): 5'-GTGGCACAgCAACTGGCGGaCAAaggtggcggaTCGTTGCTGATTGGCGTTGCCtCCT-3' and 5'-AGGaGGCAACGCCAATCAGCAACGAtccgccaccTTTGtCCGCCAGTTGcTGTGCCAC- 3'. Alternate plasmid name: pAT123LacI2G(4mutations)

Plasmid Name: pAT222

Relevant Mutation: LacI**/LacI2G(4 mutations) (see comment below); lacI-I12 mutation (P3Y); C-terminal 11 amino acids deleted to prevent tetramerization

Record Creation Time: 20220422T222212+0000

Record Last Update: 20260815T081440+0000

Ratings and Alerts

No rating or validation information has been found for pAT222.

No alerts have been found for pAT222.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.