

Resource Summary Report

Generated by [PRECISE-TBI](#) on Aug 10, 2026

pEC2935 (p7INT-P23_mNeongreen~ssrA (LDD variant))

RRID:Addgene_218508

Type: Plasmid

Proper Citation

RRID:Addgene_218508

Plasmid Information

URL: <http://www.addgene.org/218508>

Proper Citation: RRID:Addgene_218508

Insert Name: mNeongreen

Organism: Synthetic

Bacterial Resistance: Erythromycin

Defining Citation: [PMID:38911550](#)

Vector Backbone Description: Vector Backbone:p7INT; Vector Types:Bacterial Expression; Bacterial Resistance:Erythromycin

Comments: This integrative plasmid enables expression of the fluorescence reporter mNeongreen in *S. pyogenes*. Due to a mutation in the SsrA degradation tag sequence (LAA to LDD), that is translationally fused to the mNeongreen protein, the reporter is destabilised and shows a reduced half-life compare to the untagged mNeongreen protein. The destabilised reporter is advantageous when gene expression is monitored over time as dynamic changes in gene expression (e.g. downregulation) can be observed. See the associated publication for more details. Resource Information: The mNeongreen gene was codon-optimised for expression in *S. pyogenes* and obtained by gene synthesis. The lactococcal P23 promoter was taken from pLZ12Km2-P23R:TA:ffluc (Plasmid #88900). p7INT was a gift from Prof. Michael Federle (University of Illinois Chicago, USA). The p7INT plasmid integrates into the 3' end of the tmRNA locus in several *S. pyogenes* strains. It was originally described in: McShan, W.M., McLaughlin, R.E., Nordstrand, A. et al. Vectors containing streptococcal bacteriophage integrases for site-specific gene insertion. *Methods Cell Sci* 20, 51–57 (1998). <https://doi.org/10.1023/A:1009773309163> Please download the detailed plasmid map using the file linked below.

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Relevant Mutation: deletion of MCS containing Plac_lacZa, introduction of a mutation to the last three amino acids of the ssrA degradation tag

Record Creation Time: 20240801T080656+0000

Record Last Update: 20260808T083107+0000

Ratings and Alerts

No rating or validation information has been found for pEC2935 (p7INT-P23_mNeongreen~ssrA (LDD variant)).

No alerts have been found for pEC2935 (p7INT-P23_mNeongreen~ssrA (LDD variant)).

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.