

Resource Summary Report

Generated by [PRECISE-TBI](#) on Aug 9, 2026

pQlox71R

RRID:Addgene_135656

Type: Plasmid

Proper Citation

RRID:Addgene_135656

Plasmid Information

URL: <http://www.addgene.org/135656>

Proper Citation: RRID:Addgene_135656

Insert Name: Intron containing lox site

Organism: Synthetic

Bacterial Resistance: Erythromycin

Defining Citation: [PMID:31826971](#)

Vector Backbone Description: Backbone Size:6500; Vector Backbone:pAT19; Vector Types:Bacterial Expression, Cre/Lox; Bacterial Resistance:Erythromycin

Comments: Use in combination with pQlox66F (addgene 135657) or pQlox 66R (addgene 135658), then pQcre1 (addgene 135659). Transcription of LtrB-derived group II intron is driven by the pFer promoter. Redesign intron to target gene using TargeTron or Clostron algorithms (links below), then clone by SOE-PCR or gene synthesis ligation between NdeI and BsrGI sites. Lox66 and Lox71 must be in same orientation to delete the intervening sequence, but the directions of introns relative to one another can generate inverted repeats in the chromosome after deletion has taken place, leading to further recombinations events. See publication for details. Intron redesign links <http://www.clostron.com/clostron1.php> http://www.targettrons.com/targettron_pLtrB.php Reference for intron redesign Heap JT, Pennington OJ, Cartman ST, Carter GP, Minton NP. The Clostron: A universal gene knock-out system for the genus Clostridium. J Microbiol Methods. 2007;70(3):452-464. Perutka J, Wang W, Goerlitz D, Lambowitz AM. Use of Computer-designed Group II Introns to Disrupt Escherichia coli DEXH / D-box Protein and DNA Helicase Genes. 2004:421-439.

Plasmid Name: pQlox71R

Record Creation Time: 20220422T221748+0000

Record Last Update: 20260808T080828+0000

Ratings and Alerts

No rating or validation information has been found for pQlox71R.

No alerts have been found for pQlox71R.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.