

Resource Summary Report

Generated by [RRID](#) on Aug 24, 2026

pJ204-loxP-100RPU.2-coEPO-BGHpA-cHS4-100RPU.2-coEPO-lox2272

RRID:Addgene_154829

Type: Plasmid

Proper Citation

RRID:Addgene_154829

Plasmid Information

URL: <http://www.addgene.org/154829>

Proper Citation: RRID:Addgene_154829

Insert Name: coEPO

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:32835482](#)

Vector Backbone Description: Backbone Marker:DNA2.0; Backbone Size:2703; Vector Backbone:pJ204; Vector Types:Mammalian Expression, Cre/Lox; Bacterial Resistance:Ampicillin

Comments: This is a donor plasmid for Cre/lox-based recombinase-mediated cassette exchange (RMCE) using poly(A)-trap. Promoter 100RPU.2 was initially described in: Brown et al. 2017 "In silico design of context-responsive mammalian promoters with user-defined functionality." DOI: 10.1093/nar/gkx768 A patent application has been filed by third parties on the promoter 100RPU.2 used in this plasmid, permission for deposition of plasmids containing the promoter sequence has been provided by AstraZeneca and The University of Sheffield. The plasmid was assembled by USER cloning.

Plasmid Name: pJ204-loxP-100RPU.2-coEPO-BGHpA-cHS4-100RPU.2-coEPO-lox2272

Relevant Mutation: Codon-optimized (Cricetulus griseus)

Record Creation Time: 20220422T221848+0000

Record Last Update: 20260815T080755+0000

Ratings and Alerts

No rating or validation information has been found for pJ204-loxP-100RPU.2-coEPO-BGHpA-cHS4-100RPU.2-coEPO-lox2272.

No alerts have been found for pJ204-loxP-100RPU.2-coEPO-BGHpA-cHS4-100RPU.2-coEPO-lox2272.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#) .

Geidies A, et al. (2026) Optogenetic BlueGENEs engineered into a human safe harbor locus. Nucleic acids research, 54(2).