

Resource Summary Report

Generated by [RRID](#) on Aug 23, 2026

Akaluc-N1

RRID:Addgene_120371

Type: Plasmid

Proper Citation

RRID:Addgene_120371

Plasmid Information

URL: <http://www.addgene.org/120371>

Proper Citation: RRID:Addgene_120371

Insert Name: Akaluc (human optimized)

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:34650390](#)

Vector Backbone Description: Backbone Marker:Clontech; Backbone Size:3928; Vector Backbone:N1; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Comments: The akaluc gene was synthesized with human/murine codon optimization from the protein amino acid sequenced provided by Iwano et. al. Science 2018 as a more sensitive luciferase enzyme for live animal imaging in vivo with the substrate Akalumine-HCl. After synthesis, the gene was cloned and cloned into the eGFP-N1 (Addgene 6085-1) using restriction enzyme cloning.

Plasmid Name: Akaluc-N1

Relevant Mutation: Human codon optimized

Record Creation Time: 20220422T221629+0000

Record Last Update: 20260815T080321+0000

Ratings and Alerts

No rating or validation information has been found for Akaluc-N1.

No alerts have been found for Akaluc-N1.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.