

Resource Summary Report

Generated by [RRID](#) on Aug 21, 2026

pLV x EF1a_EKAREN4(TA)-ires-puro

RRID:Addgene_167830

Type: Plasmid

Proper Citation

RRID:Addgene_167830

Plasmid Information

URL: <http://www.addgene.org/167830>

Proper Citation: RRID:Addgene_167830

Insert Name: EKAREN4(TA)

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:33795873](#)

Vector Backbone Description: Vector Backbone:pLV lentiviral vector; Vector Types:Mammalian Expression, Lentiviral; Bacterial Resistance:Ampicillin

Comments: We received EKAREV FRET biosensor from Matsuda-lab (Japan). We subsequently improved by insertion of a Turquoise2 synthetic DNA, including 169 silent mutations (reducing recombination) and adapted the sensor domain by point mutagenesis.

Plasmid Name: pLV x EF1a_EKAREN4(TA)-ires-puro

Relevant Mutation: K424P, K426W, T420A

Record Creation Time: 20220422T221943+0000

Record Last Update: 20260815T080947+0000

Ratings and Alerts

No rating or validation information has been found for pLV x EF1a_EKAREN4(TA)-ires-puro.

No alerts have been found for pLV x EF1a_EKAREN4(TA)-ires-puro.

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](#) .

Aston BS, et al. (2026) Macrophage-Derived PDGF-BB and GDF-15 Promote Drug Resistance in KRAS-Mutant Colorectal Cancer. bioRxiv : the preprint server for biology.