

Resource Summary Report

Generated by [NIF](#) on Jul 30, 2026

miniTol2 x EF1a_EKAREN4 + PGK-puro

RRID:Addgene_167824

Type: Plasmid

Proper Citation

RRID:Addgene_167824

Plasmid Information

URL: <http://www.addgene.org/167824>

Proper Citation: RRID:Addgene_167824

Insert Name: EKAREN4

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:33795873](#)

Vector Backbone Description: Backbone Size:3450; Vector Backbone:miniTol2 expression vector; Vector Types:Mammalian Expression; 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. The generation of stable cell lines using this plasmid requires the co-transfection of a transposase-expressing plasmid. The depositing lab recommends the use of Plasmid 158774.

Plasmid Name: miniTol2 x EF1a_EKAREN4 + PGK-puro

Relevant Mutation: K424P, K426W

Record Creation Time: 20220422T221943+0000

Record Last Update: 20260725T074220+0000

Ratings and Alerts

No rating or validation information has been found for miniTol2 x EF1a_EKAREN4 + PGK-puro.

No alerts have been found for miniTol2 x EF1a_EKAREN4 + PGK-puro.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.