

Resource Summary Report

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

pBUN501

RRID:Addgene_50582

Type: Plasmid

Proper Citation

RRID:Addgene_50582

Plasmid Information

URL: <http://www.addgene.org/50582>

Proper Citation: RRID:Addgene_50582

Insert Name: zCas9D10A

Organism: Synthetic

Bacterial Resistance: Kanamycin and Spectinomycin

Defining Citation: [PMID:25432517](#)

Vector Backbone Description: Backbone Marker:Mullineaux Lab, see <http://www.pgreen.ac.uk/>; Vector Backbone:pGreen-like binary vector; Vector Types:CRISPR, Plant expression; Bacterial Resistance:Kanamycin and Spectinomycin

Plasmid Name: pBUN501

Relevant Mutation: Cas9D10A nickase, was derived from the zCas9 and included in the toolkit to facilitate HR-based gene replacement or NHEJ-based insertion/deletion events (indels) through offset nicking under the precondition of the avoidance of off-target effects

Record Creation Time: 20220422T222259+0000

Record Last Update: 20260815T081609+0000

Ratings and Alerts

No rating or validation information has been found for pBUN501.

No alerts have been found for pBUN501.

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](#) .

Nuñez-Muñoz L, et al. (2021) Plant drought tolerance provided through genome editing of the trehalase gene. Plant signaling & behavior, 16(4), 1877005.