

# Resource Summary Report

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

## pBUN501

RRID:Addgene\_50582

Type: Plasmid

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### Proper Citation

RRID:Addgene\_50582

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### 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

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### Ratings and Alerts

No rating or validation information has been found for pBUN501.

No alerts have been found for pBUN501.

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### Data and Source Information

**Source:** [Addgene](#)

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## Usage and Citation Metrics

We found 1 mentions in open access literature.

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

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