Resource Summary Report

Generated by dkNET on Sep 7, 2026

pDW1775

RRID:Addgene_13456
Type: Plasmid

Proper Citation

RRID:Addgene_13456

Plasmid Information

URL: http://www.addgene.org/13456

Proper Citation: RRID:Addgene_13456

Bacterial Resistance: Ampicillin

Defining Citation: PMID:17406455

Vector Backbone Description: Backbone Size:5528; Vector Backbone:pDW1775; Vector Types:Plant Expression; Bacterial Resistance:Ampicillin

Comments: Plant zinc finger nuclease cloning vector. Zinc fingers are cloned in between unique XbaI and BamHI sites in front of the FokI nuclease domain. pDW1775 consists of the following components in the given order: Hinc II, SexA I, EcoN I, lambda T0 terminator, T7 primer site, BsiW I, rrnB terminator, modified NOS promoter, Bgl II, Xho I, plant leader, MASS translation signal, SV40 nuclear localization signal, AcV5 epitope tag, Xba I, Xma I, Age I, BamH I, plant optimized Fok I nuclease domain, Sac I, NOS terminator, Apa I, T3 primer site, phage FD gene VIII terminator, Bpu 10 I, modified yeast His3 gene, Pac I, yeast CEN/ARS, Bsu36 I (not unique), modified beta lactamase gene (ampicillin resistance), E. coli Trp A terminator, BstE II, Blp I, PpuM I, Rsr II, PflF I, Bgl I, modified high copy ColEI replicon, and back to Hinc II. This vector can be maintained in E. coli and yeast (Saccharomyces cerevisiae) and is also able to express a zinc finger nuclease in yeast and plants using the modified NOS promoter to drive expression. Additionally, this vector was designed to have minimal expression of the zinc finger nuclease in E. coli to facilitate cloning and reduce toxicity effects.

Plasmid Name: pDW1775

Record Creation Time: 20220422T221743+0000

Record Last Update: 20260905T074800+0000

Ratings and Alerts

No rating or validation information has been found for pDW1775.

No alerts have been found for pDW1775.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 3 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET .

Petrou N, et al. (2025) Genome Editing of the NF-YA8 Gene Modifies Tomato Plant Architecture and Fruit Traits. Plants (Basel, Switzerland), 14(12).

Dahal L, et al. (2023) Surprising Features of Nuclear Receptor Interaction Networks Revealed by Live Cell Single Molecule Imaging. bioRxiv : the preprint server for biology.

Hilioti Z, et al. (2016) A novel arrangement of zinc finger nuclease system for in vivo targeted genome engineering: the tomato LEC1-LIKE4 gene case. Plant cell reports, 35(11), 2241.