

Annotated sequence of pDs-Lox

**This information applies to the WiscDsLox lines,
but NOT the WiscDsLoxHS lines.**

Construction notes: pDS-Lox was constructed using pCambia1300 as the plasmid backbone. The T-DNA region of pCambia1300 was replaced with the T-DNA region from [pED204](#). The resulting plasmid was then modified by installing the Basta resistance gene from [pSKI015](#) in place of the Kanamycin resistance marker found in pED204. Finally, the mutant Lox43 site present in pED204 was converted to a wild-type LoxP site.

The complete sequence of the T-DNA portion of pDs-Lox is provided below.

Position: 1 - 240

Feature: Vector sequences from pCambia-1300

Position: 241 - 266

Feature: T-DNA Left Border

Position: 316 - 523

Feature: Cauliflower Mosaic Virus 35S PolyA

Position: 1,729 - 2,146

Feature: Cauliflower Mosaic Virus 35S Promoter

Position: 2,150 - 2,183

Feature: Wild-type LoxP Site

Position: 2,196 - 2,206

Feature: Ds element 11 base-pair repeat

Position: 2,196 - 2,445

Feature: Ds element transposon sequence

Position: 2,447 - 3,115

Feature: Mannopine synthase promoter

Position: 3,116 - 3,752

Feature: mRNA sequence for Bar gene that provides Basta resistance in plants

Position: 3,195 - 3,746

Feature: Protein coding sequence for Bar gene that provides Basta resistance in plants

Position: 3,753 - 4,484

Feature: PolyA region from the Octopine Synthase gene.

Position: 4,516 - 5,027

Feature: Nopaline Synthase gene 3' region.

Position: 5,046 - 5,079
Feature: Wild-type LoxP Site

Position: 5,082 - 6,964
Feature: mRNA encoding Luciferase

Position: 5,163 - 6,815
Feature: Protein coding sequence for Luciferase

Position: 6,965 - 7,300
Feature: Ds element transposon sequence

Position: 7,290 - 7,300
Feature: Ds element 11 base-pair repeat

Position: 7,333 - 8,671
Feature: mRNA for Hygromycin resistance gene. (plant selectable marker).

Position: 7,356 - 8,378
Feature: Protein coding sequence for Hygromycin resistance gene

Position: 8,684 - 8,941
Feature: Transcriptional terminator from Nopaline Synthase gene.

Position: 9,170 - 9,194
Feature: T-DNA Right Border

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