

Resource Summary Report

Generated by [RRID](#) on Aug 19, 2026

INCTbiosyn-pAct-AtINTBxb1

RRID:Addgene_127536

Type: Plasmid

Proper Citation

RRID:Addgene_127536

Plasmid Information

URL: <http://www.addgene.org/127536>

Proper Citation: RRID:Addgene_127536

Insert Name: Integrase Bxb1 coding sequence codon optimized for *A. thaliana* expression.

Organism: Other

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:32444777](#)

Vector Backbone Description: Vector Backbone:pBluescript II SK(-); Vector Types:Plant Expression; Bacterial Resistance:Ampicillin

Comments: The whole insert (promoter, CDS and terminator) was synthesized and cloned into backbone plasmid. The Actin 2 promoter came from Aragao, F. J. L., et al. Plant Science 168, 1227-1233 (2005) and the NOS terminator sequence from pBI426 plasmid of Datla, R.S., et al. Gene 101, 239-246 (1991). The original Bxb1 coding sequence (before *A. thaliana* codon optimization) was obtained from Bonnet, J. et al. Science 340, 599-603 (2013) (Genbank KC529324.1).

Plasmid Name: INCTbiosyn-pAct-AtINTBxb1

Record Creation Time: 20220422T221709+0000

Record Last Update: 20260815T080437+0000

Ratings and Alerts

No rating or validation information has been found for INCTbiosyn-pAct-AtINTBxb1.

No alerts have been found for INCTbiosyn-pAct-AtINTBxb1.

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](#) .

de Oliveira MA, et al. (2024) Protocol for the establishment of a serine integrase-based platform for functional validation of genetic switch controllers in eukaryotic cells. PloS one, 19(5), e0303999.