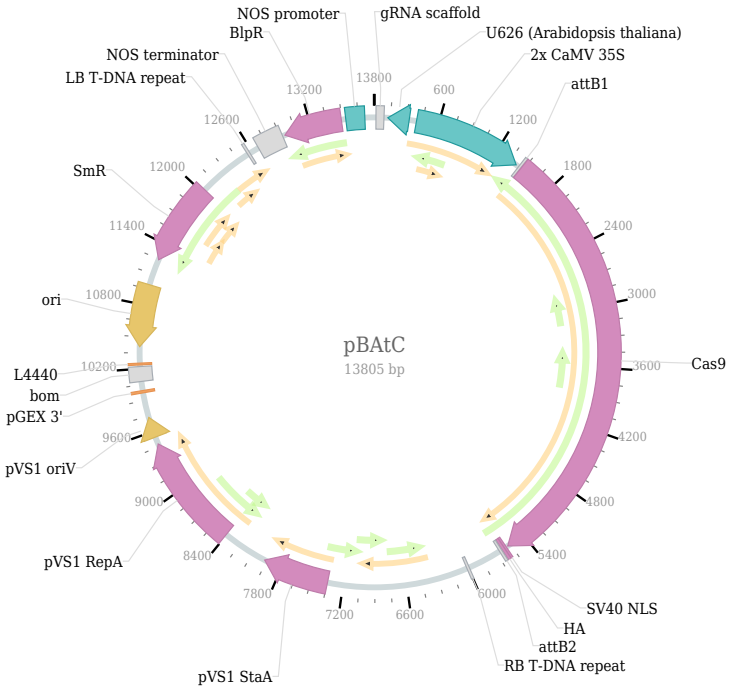
pBAtC

Vector ID	V001256
Antibiotic Resistance	Spectinomycin
Length	13805 bp
Vector Type	Plant Expression, CRISPR
Host	Plants

Product Information

Replication Origin	ori
Selection Marker	Basta
Promoter	CaMV 35S
Cloning Method	Restriction Enzyme
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	pBAtC is a Gateway-compatible T-DNA binary CRISPR-Cas9 vector for Agrobacterium-mediated plant transformation with Basta herbicide resistance marker. It carries an Arabidopsis U6 sgRNA cassette flanked by dual AarI sites for fast, high-throughput sgRNA oligo cloning without PCR. Its unique EcoRI/XhoI sites allow easy replacement of U6 promoter, while Gateway attR cassettes support flexible swapping of various Cas9 variants. This simple, modular vector achieves efficient heritable targeted mutagenesis in both model and non-model plant species.

Vector Map



Plasmid Resuspension Protocol

1. Centrifuge at 5,000×g for 5 min.
2. Carefully open the tube and add sterile water to dissolve the DNA: add 20 µl for 5 µg plasmid, and 100 µl for 100 µg plasmid.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin to concentrate the liquid at the bottom. Speed is less than 5000×g.
5. Store the plasmid at -20 ℃.