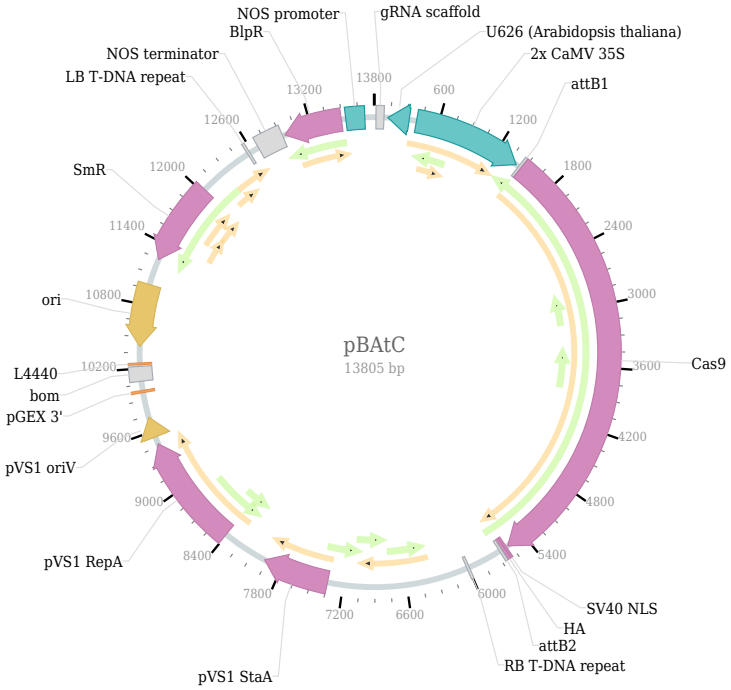
pBAtC

载体编号 Vector ID	V001256
抗性 Antibiotic Resistance	Spectinomycin
长度 Length	13805 bp
载体类型 Vector Type	Plant Expression, CRISPR
宿主 Host	Plants

产品信息

复制子 Replication Origin	ori
筛选标记 Selection Marker	Basta
启动子 Promoter	CaMV 35S
克隆方法 Cloning Method	Restriction Enzyme
培养菌株 Growth Strain(s)	DH10B
培养温度 Growth Temperature	37℃
备注 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.

质粒图谱



复溶方法

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 ℃.