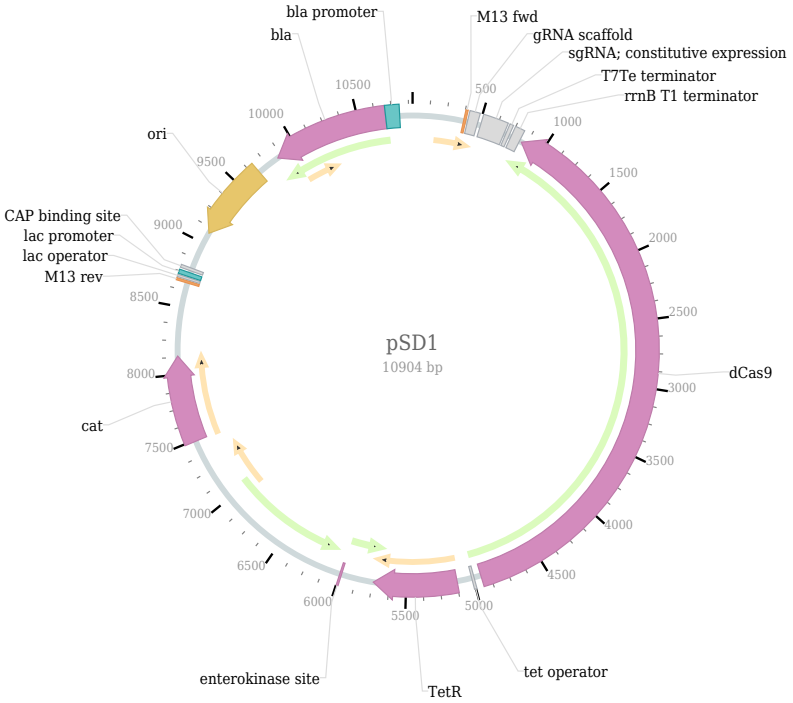
pSD1

Vector ID	V003400
Antibiotic Resistance	Ampicillin
Length	10904 bp
Vector Type	Staphylococcus aureus knockdown vector

Product Information

Replication Origin	ori
Source/Author	Zhao C, Sun B.
Selection Marker	Tetracycline
Growth Strain(s)	DH5alpha
Growth Temperature	37℃
Comment	The pSD1 is a E. coli-S. aureus shuttle plasmid for constitutive expression of the sgRNA and conditional expression of dCas9 under the control of an anhydrotetracycline (ATc)-inducible promoter, making this system both inducible and reversible. It reuires both the dCas9 and sgRNA to construct an efficient system for gene knockdown in S. aureus. SapI-digested plasmid pSD1 was used to insert sgRNA.

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 ℃.