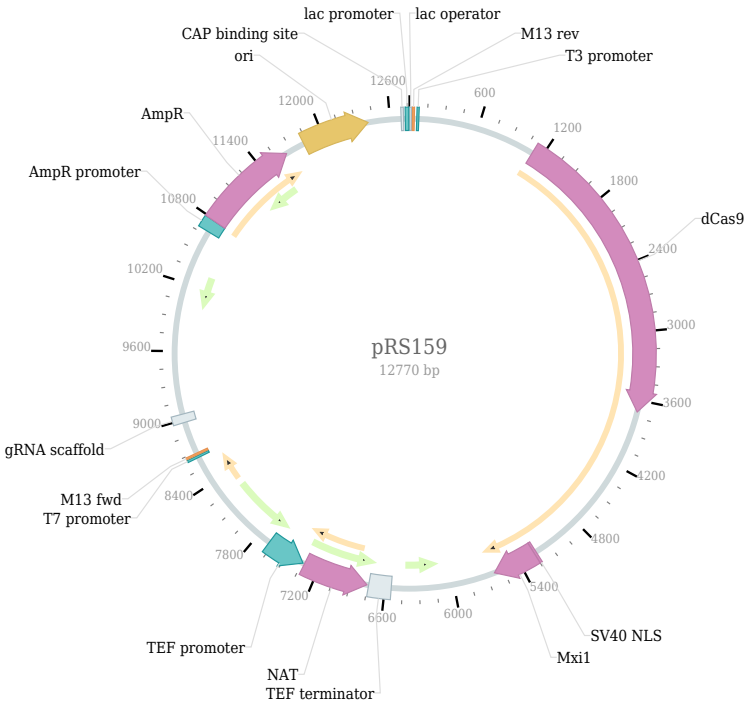
pRS159

Vector ID	V047690
Antibiotic Resistance	Ampicillin
Length	12770 bp
Vector Type	CRISPR Plasmids
Host	Yeast

Product Information

Replication Origin	ori
Source/Author	Rebecca Shapiro
Selection Marker	Nourseothricin
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	This is a 12770 bp CRISPR/dCas9-based vector. It expresses a dCas9-Mxi1 fusion protein, driven by the TEF promoter, where Mxi1 acts as a killer toxin for yeast selection. The construct includes an sgRNA scaffold under the control of the T7 promoter for guide RNA expression. It also features the NAT gene for antibiotic selection, an AmpR marker, and an MCS for cloning.

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 ℃.