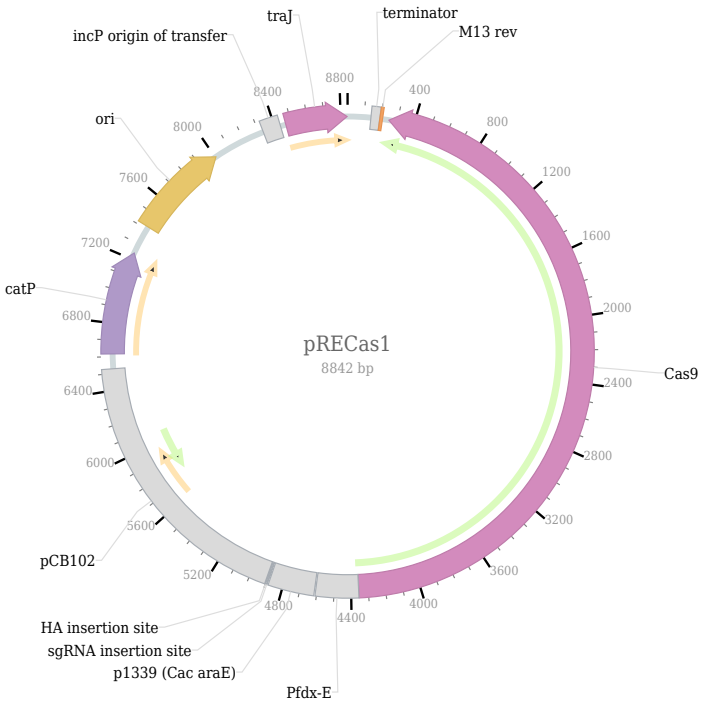
pRECas1

Vector ID	V017498
Antibiotic Resistance	Chloramphenicol
Length	8842 bp
Vector Type	CRISPR Plasmids

Product Information

Source/Author	Cañadas IC, Groothuis D, Zygouropoulou M, Rodrigues R, Minton NP.
Promoter	Pfdx
Growth Strain(s)	DH10b
Growth Temperature	37℃
Comment	The pRECas1 system is a versatile CRISPR-Cas9 gene editing platform designed for widespread use in Clostridia and other anaerobic Gram-positive species. It includes five vectors, collectively referred to as pRECas1. A component of this system, RiboCas, features the Cas9 enzyme regulated by a precisely controlled, theophylline-responsive riboswitch. This innovative approach addresses many challenges associated with Cas9 toxicity in both the shuttle host and target organisms.

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 ℃.