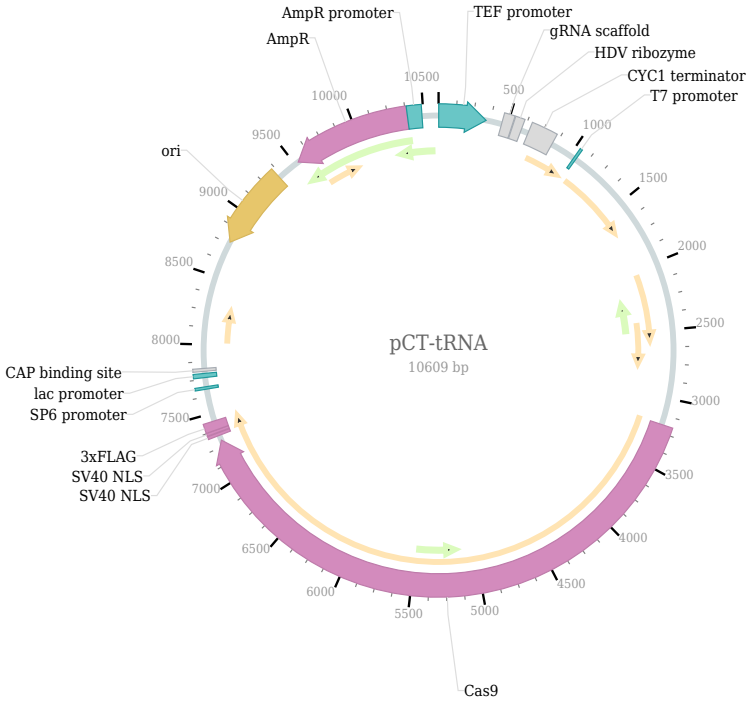
pCT-tRNA

Vector ID	V014651
Antibiotic Resistance	Ampicillin
Length	10609 bp
Vector Type	Genome editing
Host	Yeast

Product Information

Replication Origin	ori
Promoter	TEF
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	The pCT-tRNA plasmid enables efficient CRISPR-Cas9 gene editing in Candida tropicalis through: 1） Autonomous replication via CaARS2 from C. albicans. 2）Marker expression (nourseothricin resistance SAT1). 3）Cas9 delivery driven by M. guillermondii TEF1 promoter. 4）Single-step gRNA cloning between tRNAAla and HDV ribozyme, expressed via A. gossypii TEF1 promoter.

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 ℃.