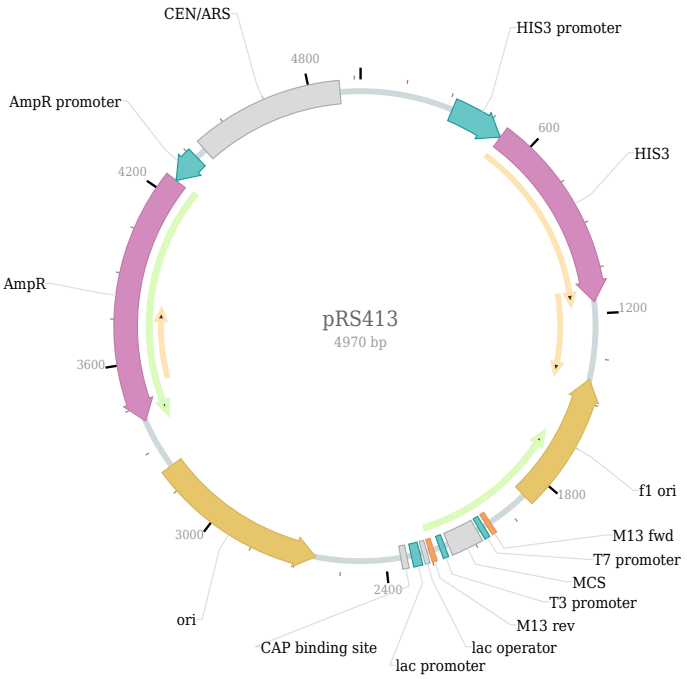
pRS413

Vector ID	V010223
Antibiotic Resistance	Ampicillin
Length	4970 bp
Vector Type	Yeast Plasmids
Host	Yeast

Product Information

Replication Origin	ori
Source/Author	Sikorski RS, Hieter P.
Copy Number	High copy number
Promoter	HIS3
5' Primer	M13 fwd
3' Primer	M13 rev
Growth Strain(s)	DH10B
Comment	pRS413, a low-copy yeast expression vector, was employed to stably express the CEN/ARS element. Mutant strains were screened using HIS3 markers to construct MrpL35 mitochondrial ribosomal protein mutant strains, thereby elucidating their regulatory mechanisms governing cytochrome c oxidase assembly.

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 ℃.