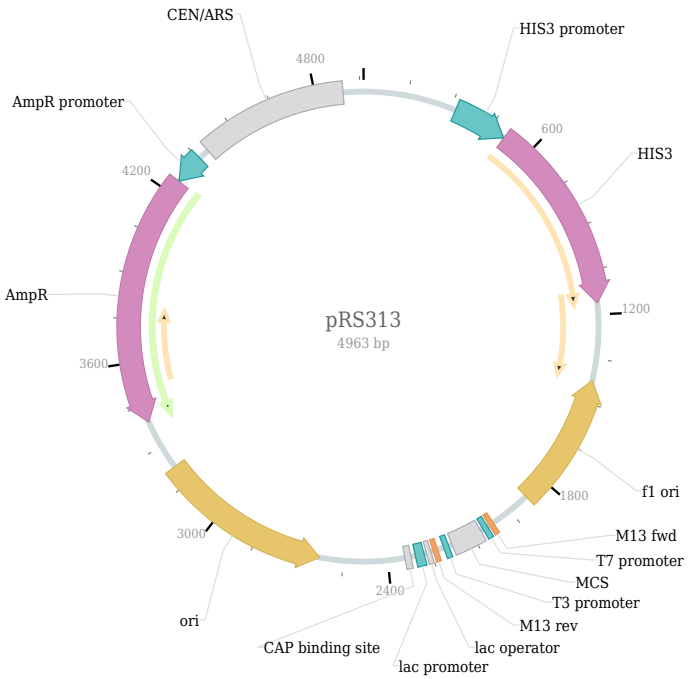
pRS313

Vector ID	V010231
Antibiotic Resistance	Ampicillin
Length	4963 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
Growth Temperature	37℃
Comment	pRS313 is a yeast-E. coli shuttle vector belonging to the widely used pRS series. It is a centromere plasmid (YCp) containing the CEN6/ARSH4 sequence, which allows for stable, low-copy-number replication in Saccharomyces cerevisiae. Its selectable marker is the HIS3 gene, enabling growth in histidine-deficient media. The vector is based on a pBluescript backbone, facilitating high-copy propagation in E. coli(selected with ampicillin), and features a multiple cloning site within the lacZα peptide for blue-white screening.

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 ℃.