pRS423

Vector ID	V010219
Antibiotic Resistance	Ampicillin
Length	5799 bp
Vector Type	Yeast Plasmids
Host	Yeast

Product Information

Replication Origin	ori
Source/Author	Christianson TW, Sikorski RS, Dante M, Shero JH, Hieter P.
Selection Marker	HIS3
Copy Number	High copy number
Promoter	HIS3
5' Primer	M13 fwd
3' Primer	M13 rev
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	pRS423 is a high-copy yeast shuttle vector (YEp) from the pRS420 series, featuring a HIS3 selectable marker. Derived from pBluescript II SK+, it carries a 2μm replication origin (~20 copies/cell) and a 21-site MCS. Deposited at ATCC (77104), it is widely used for heterologous expression and genetic studies in his3 yeast strains. An upgraded version, pRSII423, offers improved restriction site compatibility.

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 ℃.