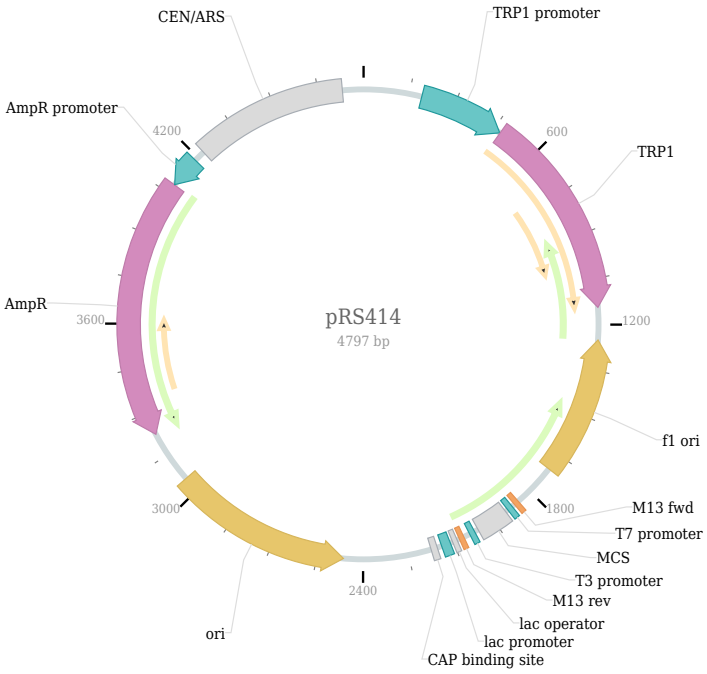
pRS414

Vector ID	V010222
Antibiotic Resistance	Ampicillin
Length	4797 bp
Vector Type	Yeast Plasmids

Product Information

Replication Origin	ori
Source/Author	Sikorski RS, Hieter P.
Copy Number	Low copy number
Promoter	TRP1
5' Primer	M13 fwd
3' Primer	M13 rev
Growth Strain(s)	Top10
Growth Temperature	37℃
Comment	pRS414 is a member of the pRS series of yeast shuttle vectors, used for efficient DNA shuttle operations between Saccharomyces cerevisiae and Escherichia coli. Derived from pBluescriptII KS+, pRS414 is a low-copy-number centromeric plasmid (YCp, Yeast Centromeric Plasmid) and is maintained at an extremely low level in yeast cells—approximately one copy per haploid genome. pRS414 carries the TRP1 gene as a selection marker for yeast nutritional deficiency.

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 ℃.