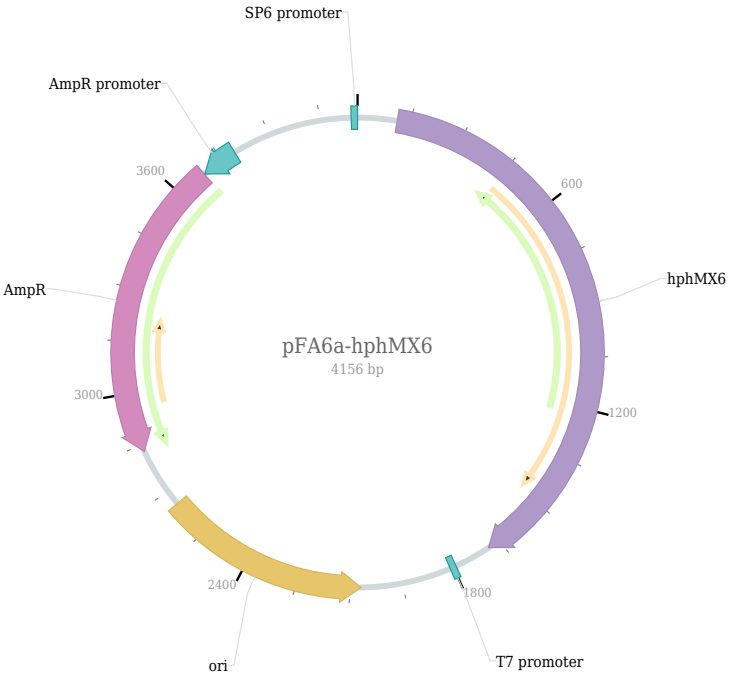
pFA6a-hphMX6

Vector ID	V010297
Antibiotic Resistance	Ampicillin
Length	4156 bp
Vector Type	Yeast Plasmids
Host	Yeast

Product Information

Replication Origin	ori
Source/Author	Hentges P, Van Driessche B, Tafforeau L, Vandenhaute J, Carr AM.
Copy Number	High copy number
Promoter	TEF
Growth Strain(s)	Top10
Growth Temperature	37℃
Comment	The plasmid vector pFA6a-hphMX6 is a modular tool for PCR-based gene disruption and epitope tagging in the fission yeast Schizosaccharomyces pombe. It contains the hphMX6 cassette, which confers resistance to hygromycin B, driven by the Ashbya gossypii TEFpromoter and terminator. The plasmid is designed so that the marker cassette can be amplified with primers that have 80-100 bp flanking sequences homologous to a target gene, enabling precise genomic integration via homologous recombination. Its backbone includes an ampicillin resistance gene and a bacterial origin of replication for propagation in E. coli. This vector is part of the widely used pFA6a-MX6 series.

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 ℃.