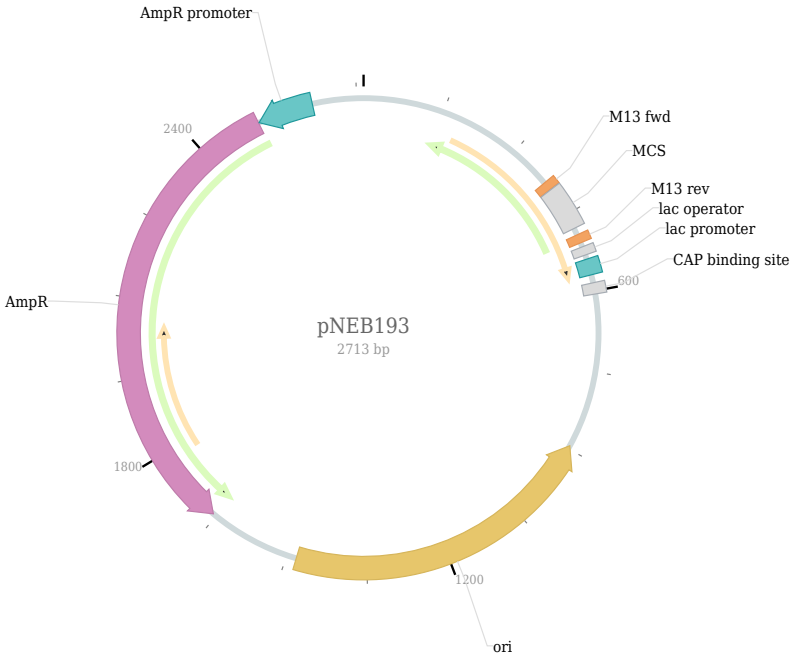
pNEB193

Vector ID	V012442
Antibiotic Resistance	Ampicillin
Length	2713 bp
Vector Type	Cloning Vectors

Product Information

Replication Origin	ori
Source/Author	New England Biolabs
Copy Number	High copy number
5' Primer	M13 fwd
3' Primer	M13 rev
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	pNEB193 is a high-copy-number cloning vector derived from pUC19 for use in E. coli. Its key features include a pUC19 origin of replication for high plasmid yield and an ampicillin resistance gene for selection. It also contains a multiple cloning site (MCS) within a lacZα fragment, enabling blue-white screening for easy identification of recombinant clones. This small, versatile plasmid serves as a fundamental scaffold for constructing more complex vectors, such as shuttle plasmids for other organisms.

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 ℃.