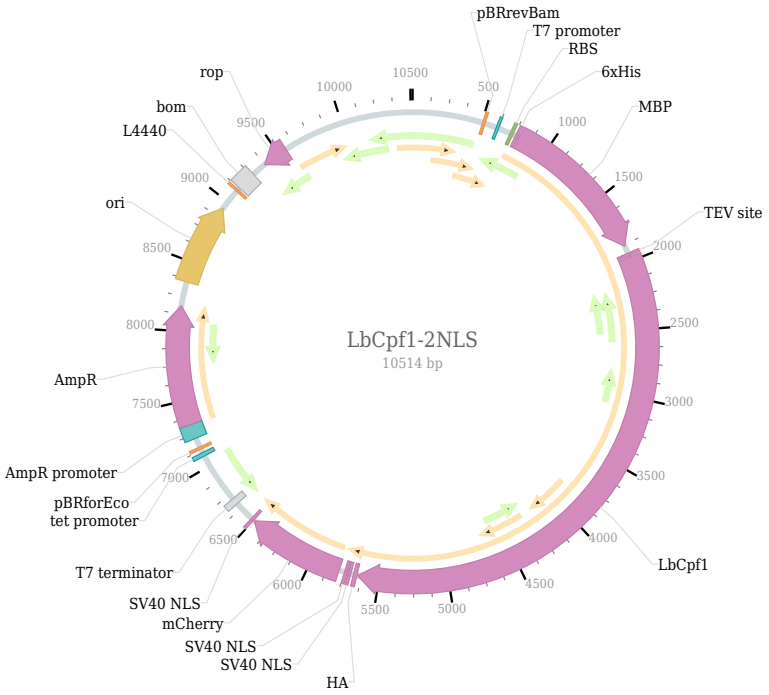
LbCpf1-2NLS

Vector ID	V012200
Antibiotic Resistance	Ampicillin
Length	10514 bp
Vector Type	Bacterial Expression

Product Information

Replication Origin	ori
Copy Number	High Copy
Promoter	tet
Cloning Method	Gibson Cloning
5' Primer	T7 Pro
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	This is a 10514 bp vector, LbCpf1-2NLS, designed for expressing the LbCpf1 nuclease. It features a T7 promoter for high-level expression, followed by a 6xHis tag and MBP fusion partner. The LbCpf1 coding sequence is flanked by SV40 NLS signals to ensure nuclear localization. A downstream mCherry reporter with an HA tag allows for visualization, while the pBRrevBam origin and AmpR gene enable replication and selection in E.coli.

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 ℃.