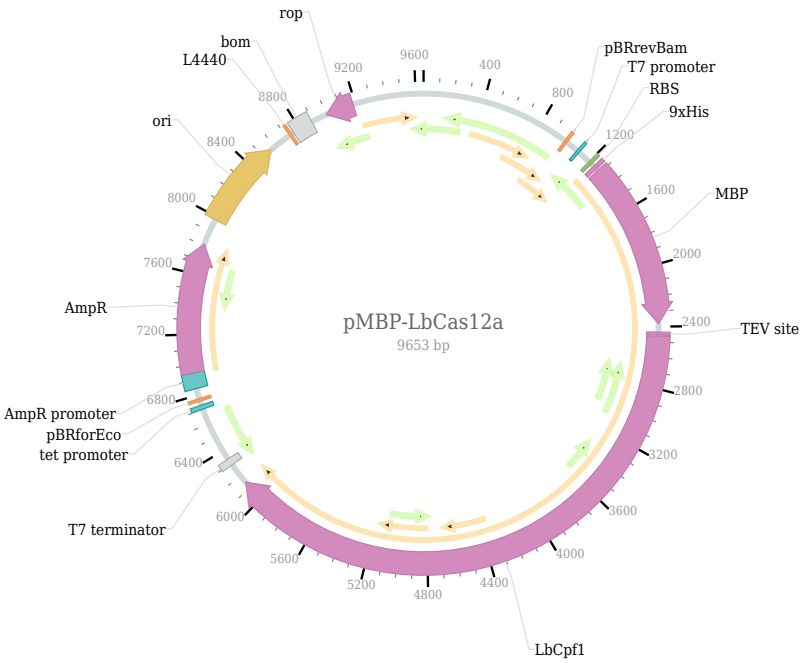
pMBP-LbCas12a

载体编号 Vector ID	V001402
抗性 Antibiotic Resistance	Ampicillin
长度 Length	9653 bp
载体类型 Vector Type	Bacterial Expression

产品信息

复制子 Replication Origin	ori
来源 Source/Author	Jennifer Doudna
拷贝数 Copy Number	High Copy
启动子 Promoter	tet
克隆方法 Cloning Method	Gibson Cloning
5' 引物 5' Primer	GATGAAGCCCTGAAAGACGCGCAG
3' 引物 3' Primer	CTA GTT ATT GCT CAG CGG T
培养菌株 Growth Strain(s)	DH5alpha
培养温度 Growth Temperature	37℃
备注 Comment	The pMBP-LbCas12a plasmid is designed for high-yield expression and purification of the Lachnospiraceae bacteriumCas12a protein. It utilizes an MBP (maltose-binding protein) fusion tag to improve soluble protein yield and a His-tag for purification via nickel affinity chromatography. This vector is widely used to produce Cas12a for CRISPR-based genome editing and diagnostic applications. Ampicillin: 100 μg/mL

质粒图谱



复溶方法

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 ℃.