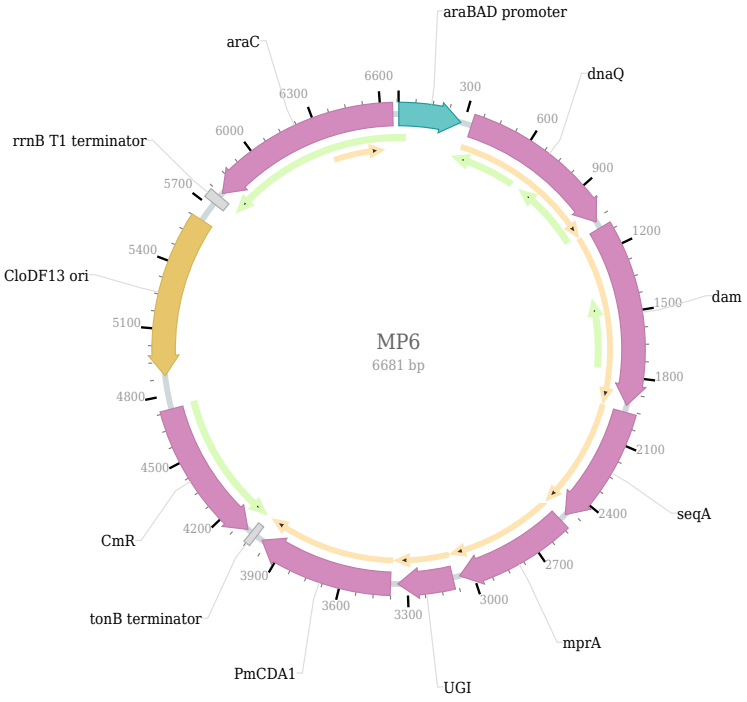
MP6

载体编号 Vector ID	V006635
抗性 Antibiotic Resistance	Chloramphenicol
长度 Length	6681 bp
载体类型 Vector Type	Bacterial Expression

产品信息

复制子 Replication Origin	CloDF13 ori
拷贝数 Copy Number	High Copy
启动子 Promoter	araBAD
克隆方法 Cloning Method	Ligation Independent Cloning
5' 引物 5' Primer	pBAD-F
3' 引物 3' Primer	CAT-F
培养菌株 Growth Strain(s)	DH10B
培养温度 Growth Temperature	37℃
备注 Comment	The plasmid vector MP6 is a mutagenesis plasmid designed for highly efficient in vivo mutagenesis in E. coli. It functions as an inducible system, where the expression of multiple mutagenic genes—including dnaQ926 (disrupting proofreading), dam and seqA (impairing mismatch repair), and ugi and cda1 (promoting cytosine deamination)—is controlled by an arabinose-inducible promoter. This design significantly enhances mutation rates while offering a broad mutational spectrum, making it a potent tool for laboratory evolution experiments.

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 ℃.