pBV220

载体编号 Vector ID	V000089
抗性 Antibiotic Resistance	Ampicillin
长度 Length	3665 bp
载体类型 Vector Type	E. coli Expression Vectors

产品信息

复制子 Replication Origin	ori
拷贝数 Copy Number	High copy number
启动子 Promoter	pR/pL
克隆方法 Cloning Method	Enzyme digestion and ligation
5' 引物 5' Primer	pBV220-F: 5′-AAGAAGGGCAGCATTCAAAG-3‘
3' 引物 3' Primer	pBV220-R: 5′-CTGCGTTCTGATTTAATCTG-3‘
培养菌株 Growth Strain(s)	DH5a
培养温度 Growth Temperature	30℃
备注 Comment	pBV220 (Cat No.: V000089) is a high-performance E. coli expression vector engineered around the λ phage-derived PL and PR promoters, offering efficient and cost-effective gene expression control through its core features: it is equipped with λPL and λPR promoters that exhibit strong transcriptional initiation capability, regulated by a temperature-sensitive λ repressor (ts) which eliminates the need for chemical inducers, with temperature-dependent regulation where the active repressor inhibits PL/PR promoters at 30℃ and shifting the culture temperature to 42℃ inactivates the repressor to trigger target gene expression; the vector offers cloning and expression advantages such as a multi-cloning site (MCS) downstream of the SD sequence to facilitate insertion of foreign genes with an initiation ATG for expressing non-fusion proteins, and contains strong rrnB T1 and T2 transcription terminators to prevent read-through and enhance system stability.

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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 ℃.