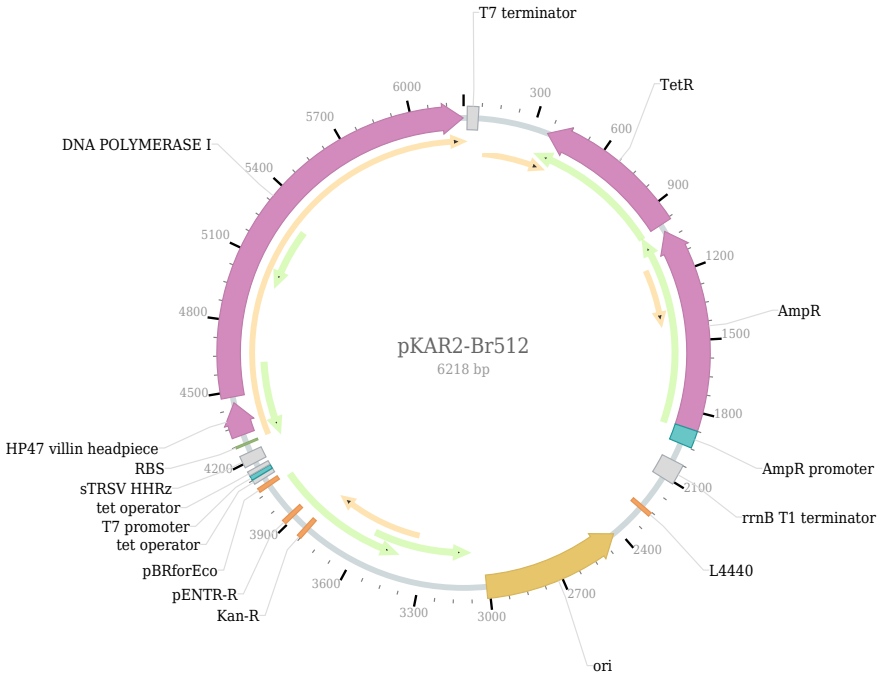
pKAR2-Br512

载体编号 Vector ID	V006626
抗性 Antibiotic Resistance	Ampicillin
长度 Length	6218 bp
载体类型 Vector Type	Bacterial Expression

产品信息

复制子 Replication Origin	ori
拷贝数 Copy Number	High Copy
启动子 Promoter	T7, tetPA
克隆方法 Cloning Method	Restriction Enzyme
5' 引物 5' Primer	GCATCGTCTCATCGGTCTCATATGCACCATCATCACGGTCATC
3' 引物 3' Primer	ATGCCGTCTCAGGTCTCAGGATCCTTATTACTTGGCGTCATACCAGGTG
备注 Comment	pKAR2-Br512 is an in-house T7-driven E. coli expression plasmid for producing engineered Br512 polymerase. It encodes a fusion protein combining 8×His-tag, HP47 villin headpiece and Bst-LF large fragment. Transformed into BL21(DE3), it yields soluble Br512 with enhanced folding, solubility and reverse transcriptase activity. The purified enzyme serves as a superior low-cost substitute for commercial Bst 2.0 in SARS-CoV-2 RT-LAMP diagnostics.

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 ℃.