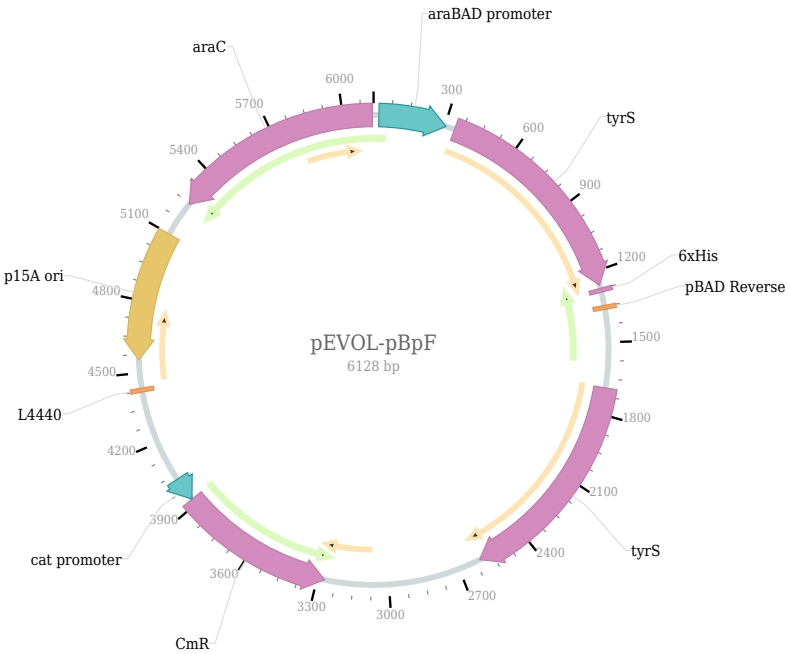
pEVOL-pBpF

载体编号 Vector ID	V012597
抗性 Antibiotic Resistance	Chloramphenicol
长度 Length	6128 bp
载体类型 Vector Type	Bacterial Expression

产品信息

复制子 Replication Origin	p15A ori
拷贝数 Copy Number	High Copy
启动子 Promoter	araBAD
克隆方法 Cloning Method	Restriction Enzyme
5' 引物 5' Primer	ATTAGCGGATCCTACCTGACGCTTTTTATCGCAACTCTCTACTGTTTCTCCATACCCGTTTTTT
培养菌株 Growth Strain(s)	DH10B
培养温度 Growth Temperature	37℃
备注 Comment	The pEVOL-pBpF plasmid enables site-specific incorporation of the non-canonical amino acid (UAA) para-benzoyl-L-phenylalanine (pBpF) into proteins via an orthogonal tRNA/synthetase pair. It suppresses the amber (UAG) stop codon, allowing photo-crosslinking applications for studying protein-protein interactions. Key features include: Orthogonal AaRS/tRNA for pBpF charging; Amber codon suppression for UAA insertion; UV-activatable pBpF for covalent crosslinking.

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 ℃.