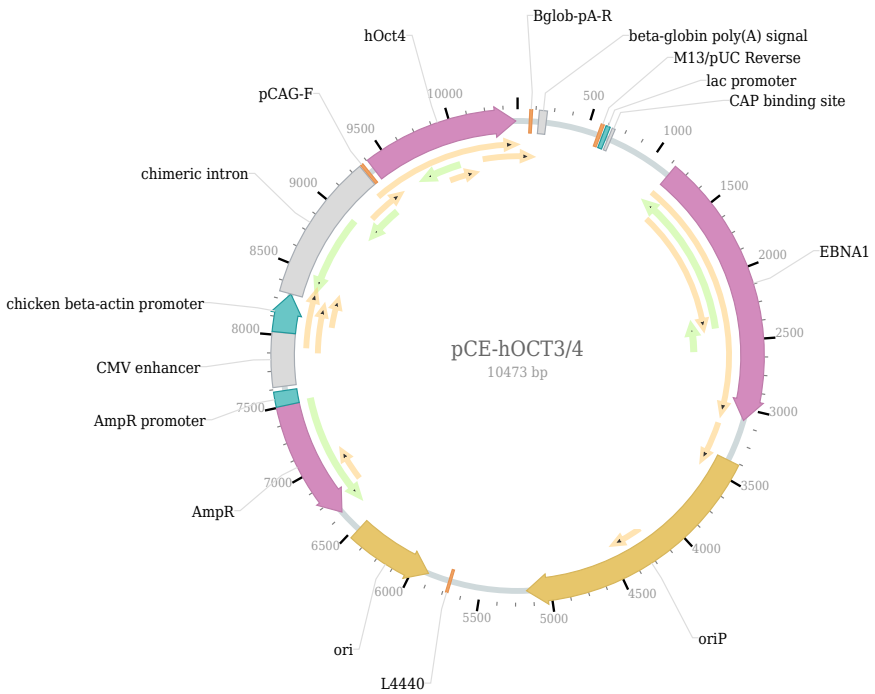
pCE-hOCT3/4

载体编号 Vector ID	V001386
抗性 Antibiotic Resistance	Ampicillin
长度 Length	10473 bp
载体类型 Vector Type	Mammalian Expression

产品信息

复制子 Replication Origin	ori
拷贝数 Copy Number	High Copy
启动子 Promoter	CAG
克隆方法 Cloning Method	Restriction Enzyme
5' 引物 5' Primer	pCAG-F
3' 引物 3' Primer	TTAGCCAGAAGTCAGATGCTC
培养菌株 Growth Strain(s)	DH5a
备注 Comment	pCE-hOCT3/4 is an EBV-based non-integrating episomal plasmid developed by Okita and Yamanaka's lab. It drives ectopic expression of human core pluripotency factor OCT3/4 via the CAG promoter for somatic cell reprogramming. This vector belongs to the Y4 episomal cocktail, used to generate integration-free iPSCs from cord blood and peripheral blood mononuclear cells. Its OriP-EBNA1 backbone enables transient plasmid replication in human cells without genomic insertion after reprogramming.

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 ℃.