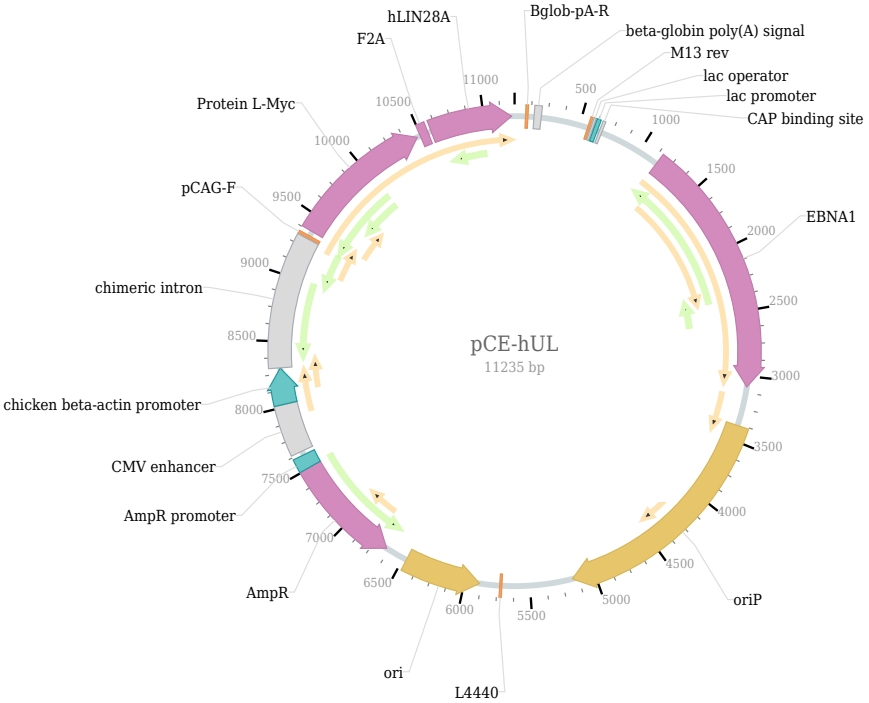
pCE-hUL

Vector ID	V000584
Antibiotic Resistance	Ampicillin
Length	11235 bp
Vector Type	Mammalian Expression

Product Information

Replication Origin	ori
Copy Number	High Copy
Promoter	CAG
Cloning Method	Restriction Enzyme
5' Primer	pCAG-F
3' Primer	TTAGCCAGAAGTCAGATGCTC
Growth Strain(s)	DH5a
Comment	pCE-hUL is an episomal non-integrating plasmid constructed by Yamanaka's team. It uses the CAG promoter to co-express human L-MYC and LIN28 via self-cleaving 2A peptide for somatic reprogramming. This vector is a core component of the Y4 episomal cocktail to generate footprint-free iPSCs from cord blood and peripheral blood cells. Its EBV-derived OriP-EBNA1 backbone enables transient plasmid replication without permanent genomic insertion in human cells.

Vector Map



Plasmid Resuspension Protocol

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 ℃.