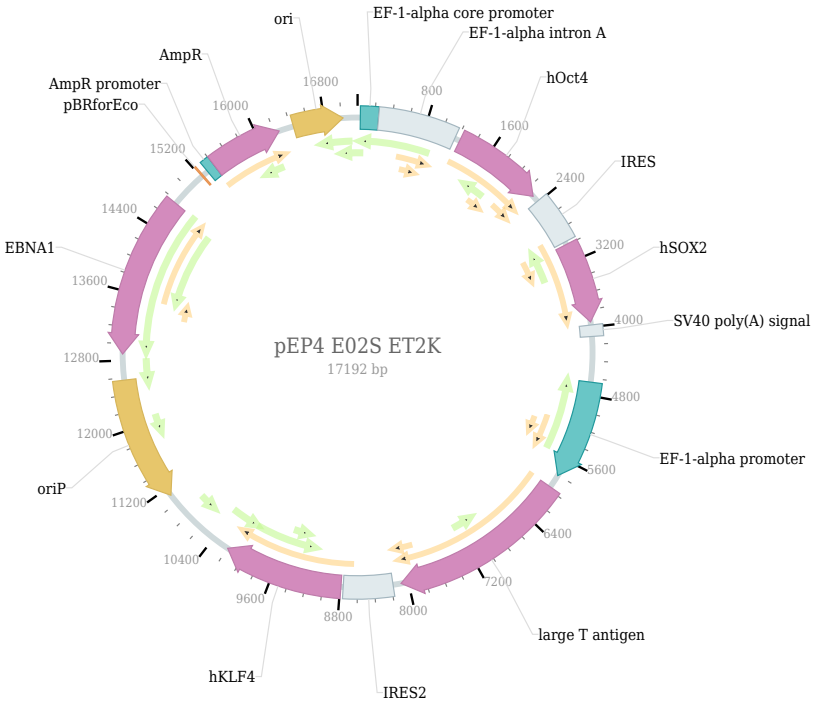
pEP4 E02S ET2K

Vector ID	V000770
Antibiotic Resistance	Ampicillin
Length	17192 bp
Vector Type	Episomal/EBNA

Product Information

Replication Origin	ori
Copy Number	Low Copy
Promoter	EF-1α
Cloning Method	Restriction Enzyme
Growth Strain(s)	Stbl3
Growth Temperature	37℃
Comment	pEP4-E02S-ET2K is an episomal vector used in the derivation of human iPS cells without integrating into the host genome. It expresses the transcription factors Oct4 and Sox2, as well as SV40 large T antigen (SV40LT) and Klf4, which are crucial for the reprogramming process.

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 ℃.