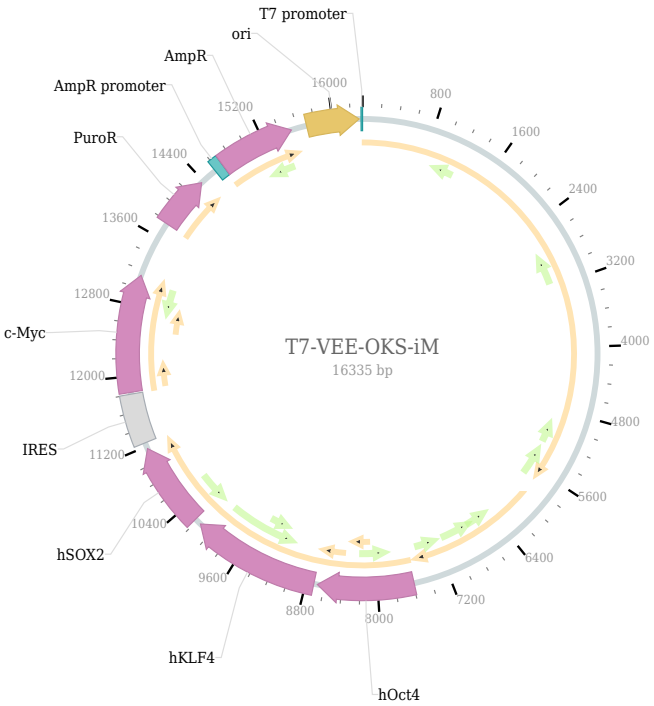
T7-VEE-OKS-iM

Vector ID	V016722
Antibiotic Resistance	Ampicillin
Length	16335 bp
Vector Type	Protein expression, Stem cell reprogramming
Host	Mammalian cells

Product Information

Replication Origin	ori
Selection Marker	Puro
Promoter	T7
Growth Strain(s)	DH5a
Growth Temperature	37℃
Comment	The T7-VEE-OKS-iM plasmid is a synthetic self-replicating RNA vector that expresses four reprogramming factors (OCT4, KLF4, SOX2 via 2A peptides and c-MYC via IRES) plus puromycin resistance for iPSC generation. This single-transfection system maintains consistent factor ratios while avoiding genomic integration, enabling efficient derivation of integration-free human iPSCs from fibroblasts. The replicon's persistence is regulated by B18R-conditioned media and puromycin selection.

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 ℃.