pMXs-Oct3/4

载体编号 Vector ID	V000420
抗性 Antibiotic Resistance	Ampicillin
长度 Length	6034 bp
载体类型 Vector Type	Mammalian Expression, Retroviral

产品信息

复制子 Replication Origin	ori
拷贝数 Copy Number	High Copy
克隆方法 Cloning Method	Restriction Enzyme
5' 引物 5' Primer	pMX-S1811
培养菌株 Growth Strain(s)	DH10B
备注 Comment	pMXs-Oct3/4 is a retroviral plasmid constructed by Yamanaka's lab for overexpressing mouse Oct3/4 transcription factor. It was co-transfected with pMXs-Sox2, pMXs-c-Myc and pMXs-Klf4 into fibroblasts to induce mouse iPS cells in the landmark 2006 Cell study. This vector produces retroviral particles via Plat-E packaging cells to stably deliver Oct3/4 into somatic cells for cellular reprogramming. Oct3/4 carried by this plasmid acts as an indispensable core pluripotency factor to drive fibroblast dedifferentiation.

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 ℃.