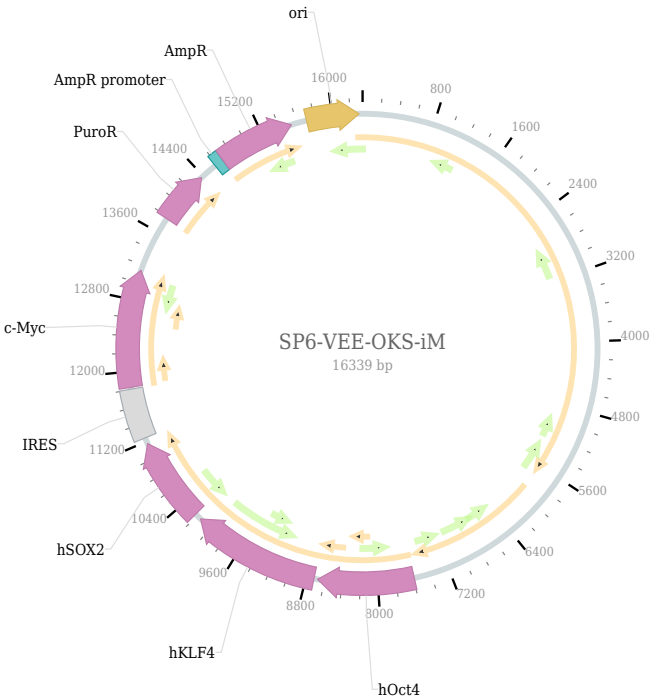
# SP6-VEE-OKS-iM

| | |
|---|---|
| **Vector ID** | V016679 |
| **Antibiotic Resistance** | Ampicillin |
| **Length** | 16339 bp |
| **Vector Type** | Protein expression, Stem cell reprogramming |
| **Host** | Mammalian cells |

## Product Information

| | |
|---|---|
| **Replication Origin** | ori |
| **Selection Marker** | Puro |
| **Copy Number** | High copy number |
| **Promoter** | SP6 |
| **Growth Strain(s)** | Top10 |
| **Growth Temperature** | 37℃ |
| **Comment** | SP6-VEE-OKS-iM is a Venezuelan equine encephalitis (VEE) virus RNA replicon plasmid. Its 3′ ORF encodes OCT4, KLF4, and SOX2 separated by 2A peptides, followed by an IRES, c-myc, a second IRES, and a PuroR ORF—enabling integration-free RNA-based human iPSC generation. |

## 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 ℃.