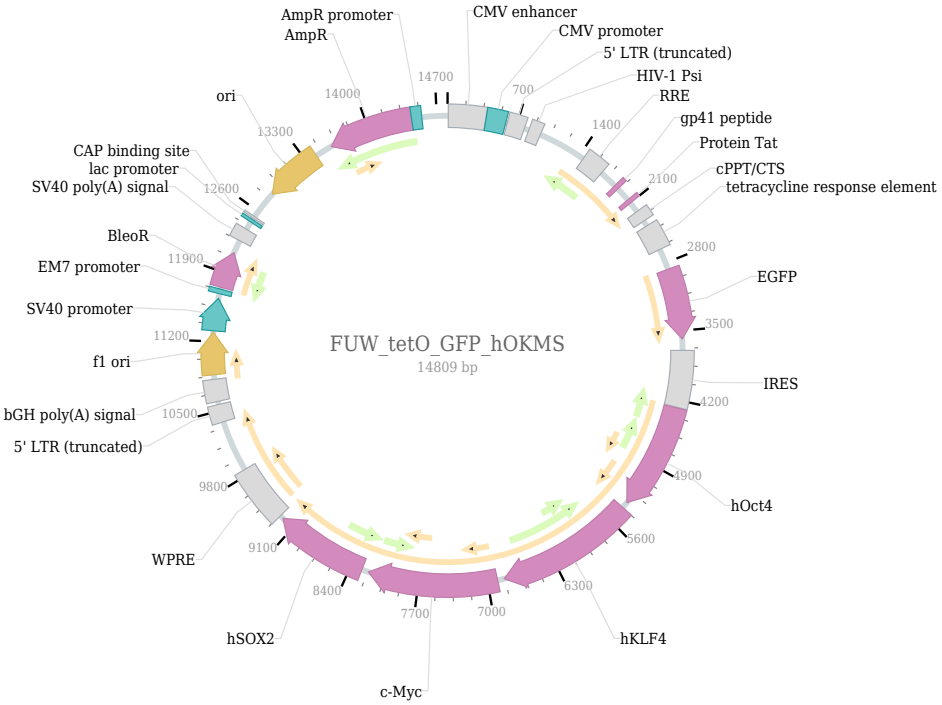
FUW_tetO_GFP_hOKMS

Vector ID	V014991
Antibiotic Resistance	Ampicillin
Length	14809 bp
Vector Type	Protein expression
Host	Mammalian cells, Lentivirus

Product Information

Replication Origin	ori
Promoter	SV40
5' Primer	SV40pro-F：TATTTATGCAGAGGCCGAGG
3' Primer	WPRE-R：CATAGCGTAAAAGGAGCAACA
Growth Temperature	37℃
Comment	The FUW-based lentiviral vector with tetO-doxycycline-inducible regulation, a GFP reporter, and human OKSM pluripotency factors (Oct4, Klf4, c-Myc, Sox2). With an rtTA system, doxycycline reversibly controls OKSM expression. GFP tracks transduced cells. It reprograms somatic cells into iPSCs under tight temporal control for stem cell and disease research

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 ℃.