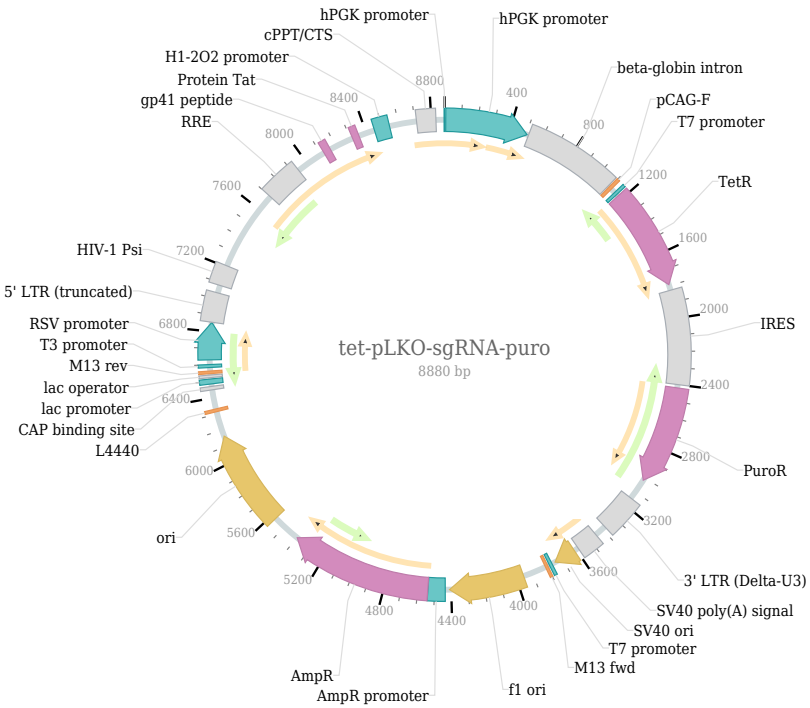
tet-pLKO-sgRNA-puro

Vector ID	V011750
Antibiotic Resistance	Ampicillin
Length	8880 bp
Vector Type	Mammalian Expression, Lentiviral, CRISPR

Product Information

Replication Origin	ori
Selection Marker	Puromycin
Copy Number	Low Copy
Promoter	hPGK
Cloning Method	Restriction Enzyme
5' Primer	tet-pLKO-seq-1: 5’- GTTTCAGACCCACCTCCCAAC’-3
Growth Strain(s)	Stbl3
Comment	tet-pLKO-sgRNA-puro is a 3rd-gen lentiviral sgRNA backbone. Its H1/TetO promoter drives doxycycline-inducible sgRNA expression with puromycin selection, enabling temporally controlled CRISPR knockout or screening when Cas9 is supplied.

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 ℃.