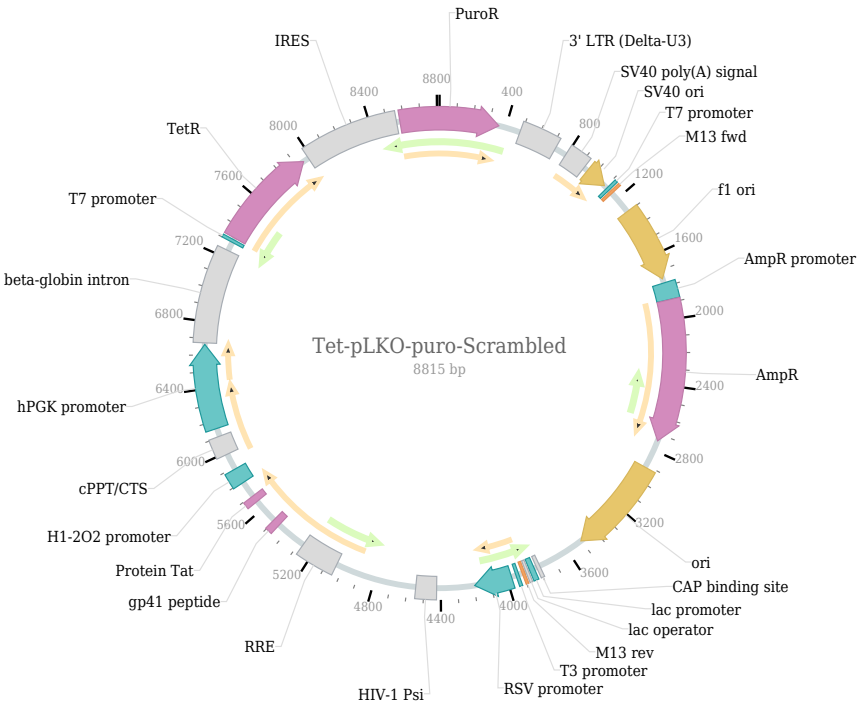
Tet-pLKO-puro-Scrambled

载体编号 Vector ID	V000016
抗性 Antibiotic Resistance	Ampicillin
长度 Length	8815 bp
载体类型 Vector Type	Mammalian Expression, Lentiviral, RNAi

产品信息

复制子 Replication Origin	ori
筛选标记 Selection Marker	Puromycin
拷贝数 Copy Number	High Copy
启动子 Promoter	hPGK
克隆方法 Cloning Method	Restriction Enzyme
5' 引物 5' Primer	H1
培养菌株 Growth Strain(s)	Stbl3
培养温度 Growth Temperature	37℃
备注 Comment	Tet-pLKO-puro-Scrambled is a doxycycline-inducible lentiviral negative control shRNA plasmid with the H1-2×TetO promoter. TetR repressor binds the TetO motifs on the H1 promoter to block scrambled shRNA transcription unless doxycycline is added to release TetR. It encodes non-targeting scrambled shRNA and puromycin resistance for stable cell line construction via lentiviral delivery. In the SCLC research, it acts as a negative control to eliminate off-target effects from viral transduction or shRNA machinery. This Tet-regulated H1 promoter system achieves reversible, inducible shRNA expression for specific gene knockdown comparison.

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 ℃.