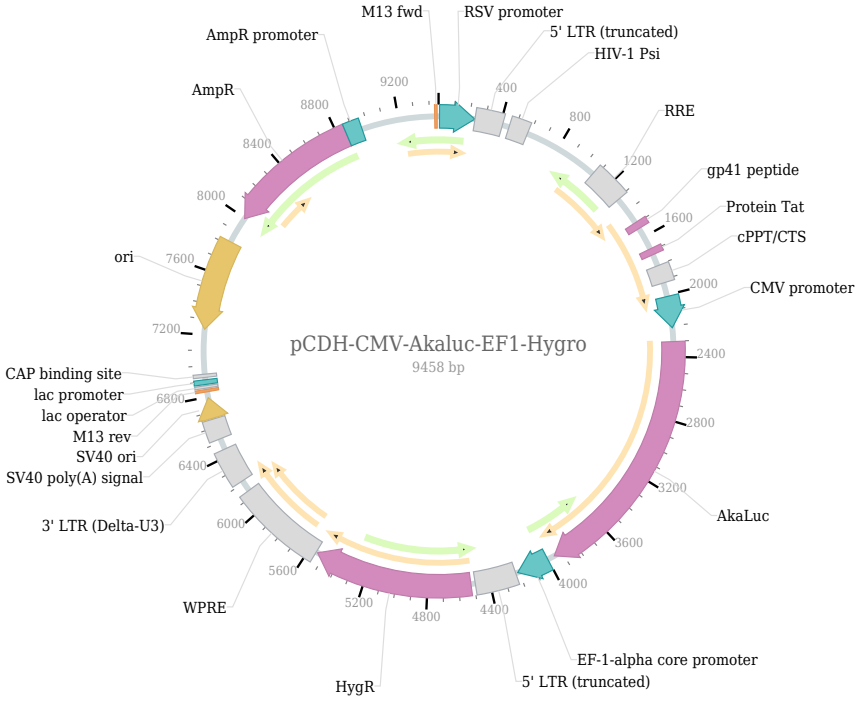
pCDH-CMV-Akaluc-EF1-Hygro

载体编号 Vector ID	V013207
抗性 Antibiotic Resistance	Ampicillin
长度 Length	9458 bp
载体类型 Vector Type	Protein expression
宿主 Host	Mammalian cells, Lentivirus

产品信息

复制子 Replication Origin	ori
筛选标记 Selection Marker	Hyg
启动子 Promoter	EF-1α core
培养菌株 Growth Strain(s)	Stbl3
培养温度 Growth Temperature	37℃
备注 Comment	pCDH-CMV-Akaluc-EF1-Hygro is an SBI lentiviral vector with CMV promoter driving Akaluc luciferase and EF1a-driven hygromycin selection, for near-infrared bioluminescence imaging in vivo. AkaLuc is an engineered firefly luciferase with 28 amino acid mutations, catalyzing its substrate AkaLumine to emit near-infrared light (peak ~670 nm); this red-shifted luminescence penetrates deep animal tissues far better than classic green bioluminescence, delivering up to 1000-fold stronger in vivo signals for single-cell and brain imaging.

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 ℃.