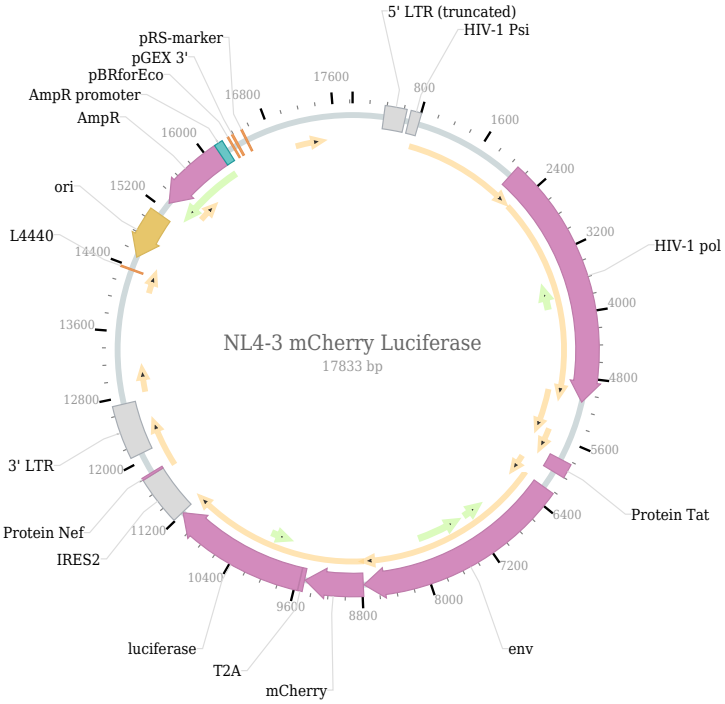
NL4-3 mCherry Luciferase

载体编号 Vector ID	V000994
抗性 Antibiotic Resistance	Ampicillin
长度 Length	17833 bp
载体类型 Vector Type	Lentiviral

产品信息

复制子 Replication Origin	ori
筛选标记 Selection Marker	mCherry, Luciferase
启动子 Promoter	EF-1 alpha– driven mCherry:Puromycin
克隆方法 Cloning Method	Restriction Enzyme
5' 引物 5' Primer	from pNLENG1 5'
3' 引物 3' Primer	from pNLENG1 3'
培养菌株 Growth Strain(s)	DH10B
培养温度 Growth Temperature	37℃
备注 Comment	The NL4 - 3 mCherry Luciferase vector is an important tool for studying HIV - 1 latency. It combines mCherry and Luciferase genes connected by a T2A ribosomal skip sequence. Under the same LTR - driven mRNA, they are expressed as separate proteins with Nef under an IRES element. This dual reporter gene system allows simultaneous monitoring of activated cell number (mCherry) and reactivation strength (Luciferase). It accurately reflects HIV - 1 states, providing a comprehensive perspective for latency mechanism study. Its advantages include comprehensive information acquisition, rapid latency establishment and reactivation detection in primary CD4 T cells and different subsets, and broad application prospects for evaluating activator effects and studying subset differences, supporting HIV latency research and treatment strategy development.

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 ℃.