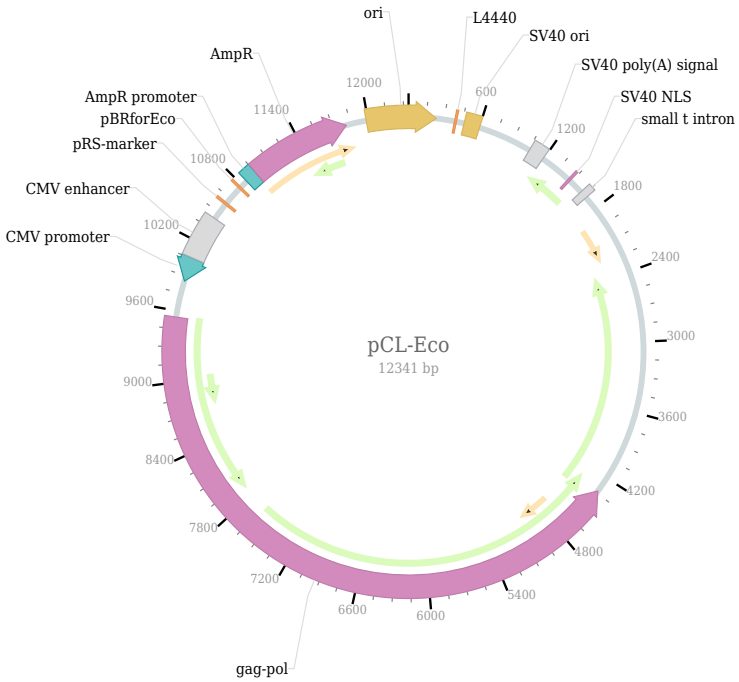
pCL-Eco

载体编号 Vector ID	V002459
抗性 Antibiotic Resistance	Ampicillin
长度 Length	12341 bp
载体类型 Vector Type	Mammalian Expression, Retroviral

产品信息

复制子 Replication Origin	ori
拷贝数 Copy Number	High Copy
启动子 Promoter	CMVd1
克隆方法 Cloning Method	Restriction Enzyme
5' 引物 5' Primer	LXSN primer
培养菌株 Growth Strain(s)	DH10B
培养温度 Growth Temperature	37℃
备注 Comment	The pCL-Eco vector is a specialized retroviral packaging plasmid designed to produce replication-defective retroviruses. Its primary functions include: Virus Production: It provides essential viral proteins (gag, pol, and env genes from the Eco-tropic strain) to package recombinant retroviruses when co-transfected with a transfer vector in packaging cell lines (e.g., 293T cells). Gene Delivery: The vector uses a CMV promoter to drive high-efficiency transgene expression in mammalian cells, enabling stable or transient gene delivery for research applications like gene therapy or functional studies. Selection & Amplification: It carries an ampicillin resistance gene for bacterial selection during plasmid propagation and cloning. In summary, pCL-Eco streamlines the generation of custom retroviruses to deliver target genes into mammalian cells efficiently.

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 ℃.