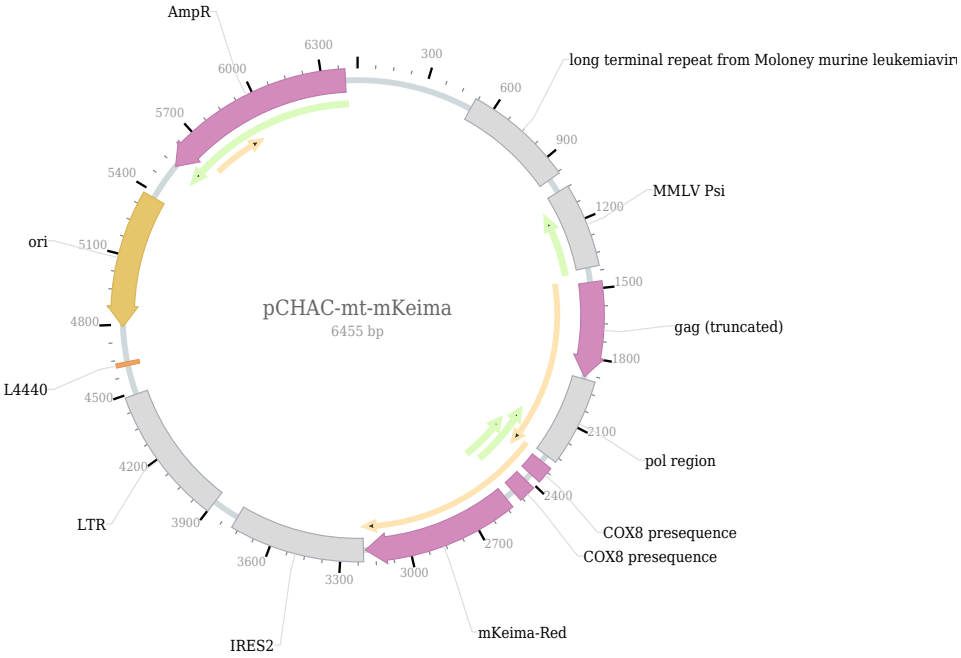
pCHAC-mt-mKeima

载体编号 Vector ID	V012220
抗性 Antibiotic Resistance	Ampicillin
长度 Length	6455 bp
载体类型 Vector Type	Retroviral

产品信息

复制子 Replication Origin	ori
拷贝数 Copy Number	High Copy
克隆方法 Cloning Method	Restriction Enzyme
5' 引物 5' Primer	TGACCTGGGAAGCCTTGGCT
3' 引物 3' Primer	TTGCCAAAAGACGGCAATAT
培养菌株 Growth Strain(s)	DH10B
备注 Comment	pCHAC-mt-mKeima is a retroviral reporter plasmid carrying mitochondria-targeted mKeima pH sensor. Its COX8 leader peptide delivers mKeima into mitochondrial matrix, which shifts excitation wavelength under lysosomal acidic environment to quantify mitophagy ratiometrically. This vector enables high-throughput mitophagy measurement via flow cytometry as used in the PINK1/Parkin mitophagy study. It reliably distinguishes intact mitochondria from those engulfed by autolysosomes without GFP quenching artifacts.

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 ℃.