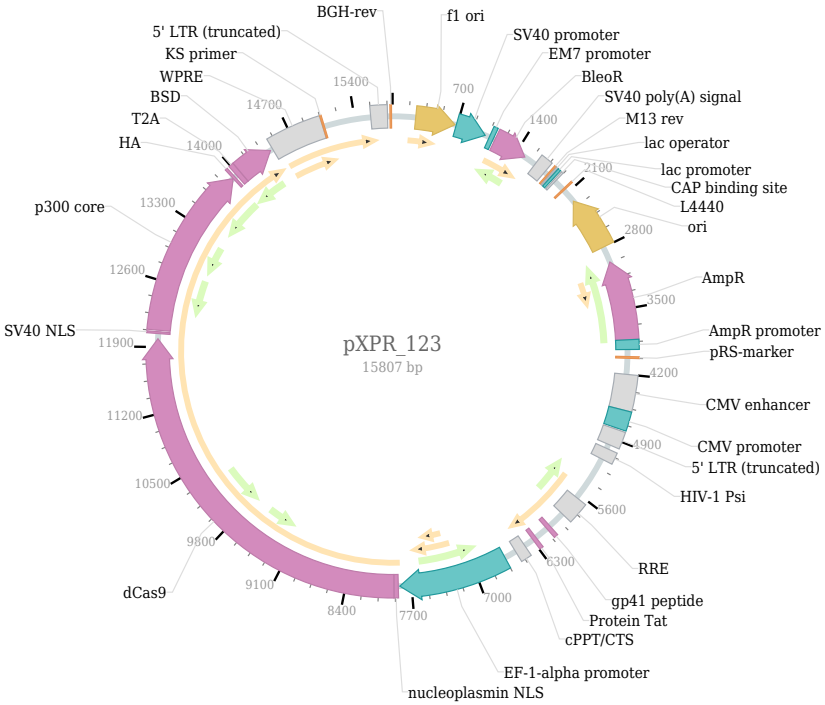
pXPR_123

载体编号 Vector ID	V007241
抗性 Antibiotic Resistance	Ampicillin
长度 Length	15807 bp
载体类型 Vector Type	Mammalian Expression, Lentiviral

产品信息

复制子 Replication Origin	ori
筛选标记 Selection Marker	Blasticidin
启动子 Promoter	EF-1α
培养菌株 Growth Strain(s)	stbl3
备注 Comment	pXPR_123 is a lentiviral CRISPR vector from the Broad Institute's Doench lab. It constitutively expresses dCas9-p300 fusion protein linked to blasticidin resistance via T2A peptide under EF-1α promoter. This plasmid enables CRISPR-mediated transcriptional activation for pooled genetic combinatorial screens in mammalian cells. It was developed for the Big Papi dual-Cas9 screening platform described in the 2018 Nature Biotechnology paper.

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 ℃.