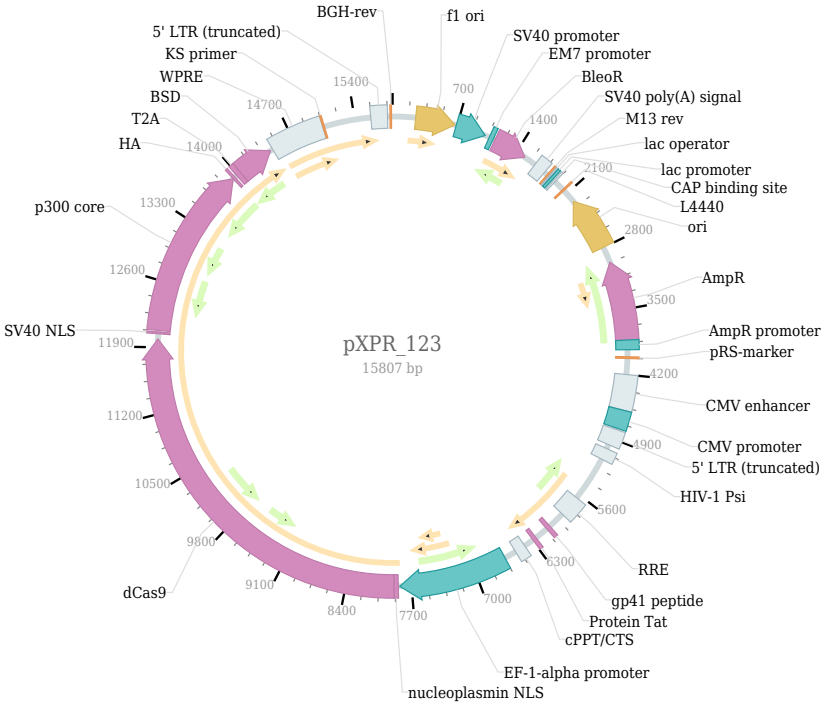
pXPR_123

Vector ID	V007241
Antibiotic Resistance	Ampicillin
Length	15807 bp
Vector Type	Mammalian Expression, Lentiviral

Product Information

Replication Origin	ori
Selection Marker	Blasticidin
Promoter	EF-1α
Growth Strain(s)	stbl3
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.

Vector Map



Plasmid Resuspension Protocol

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 ℃.