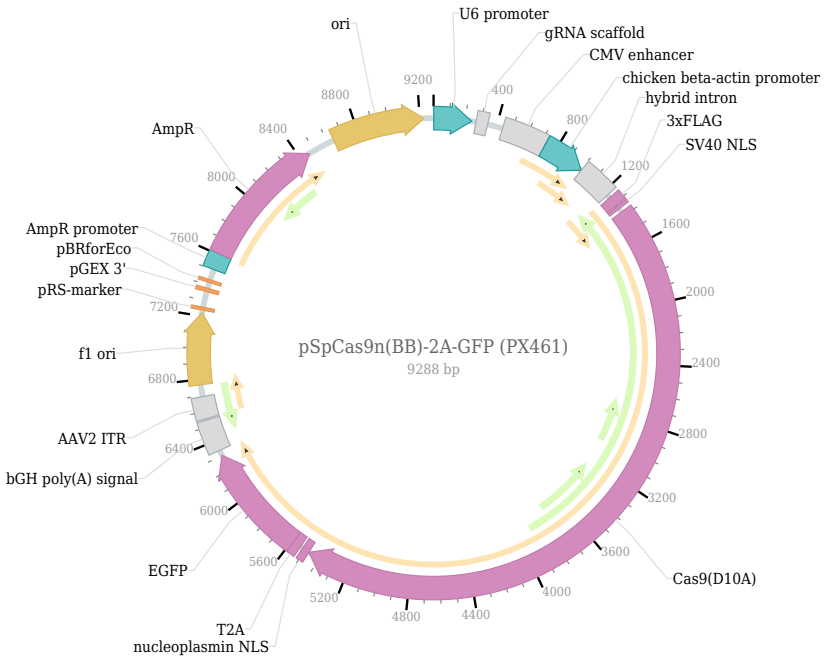
pSpCas9n(BB)-2A-GFP (PX461)

载体编号 Vector ID	V005927
抗性 Antibiotic Resistance	Ampicillin
长度 Length	9288 bp
载体类型 Vector Type	Mammalian Expression, CRISPR

产品信息

复制子 Replication Origin	ori
启动子 Promoter	CBh
克隆方法 Cloning Method	Restriction Enzyme
5' 引物 5' Primer	TTTATGGCGAGGCGGCGG
培养菌株 Growth Strain(s)	DH10B
培养温度 Growth Temperature	37℃
备注 Comment	pSpCas9n(BB)-2A-GFP (PX461) is an all-in-one CRISPR nickase plasmid developed by Zhang lab. It expresses D10A SpCas9 nickase fused with EGFP via T2A peptide for fluorescent sorting of transfected cells. Its U6-BbsI backbone enables straightforward sgRNA insertion for double-nicking editing to reduce off-target lesions. This vector supports both NHEJ knockout and precise HDR modification in mammalian cell lines.

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 ℃.