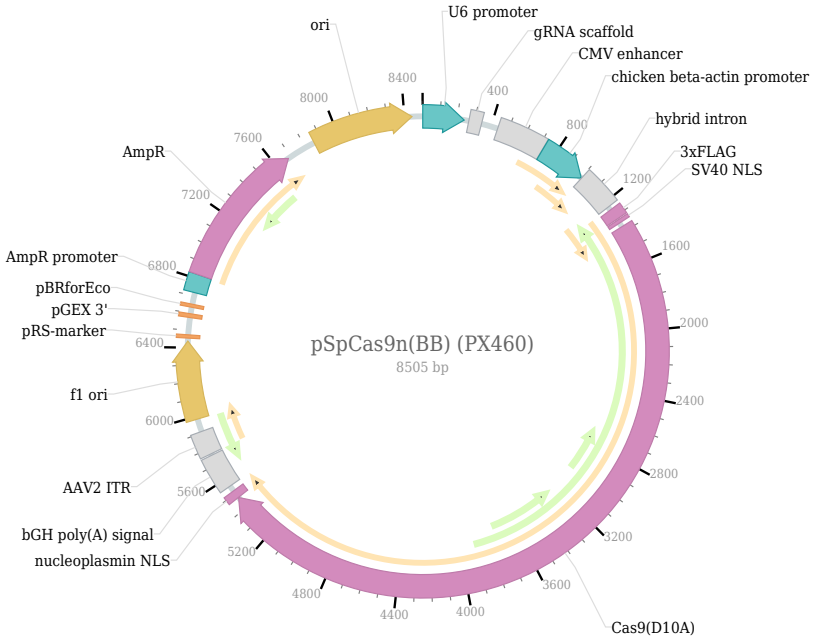
pSpCas9n(BB) (PX460)

载体编号 Vector ID	V010101
抗性 Antibiotic Resistance	Ampicillin
长度 Length	8505 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)	Stbl3
培养温度 Growth Temperature	37℃
备注 Comment	pSpCas9n(BB) (PX460) is an all-in-one mammalian CRISPR plasmid created by Feng Zhang's lab. It carries D10A-mutated SpCas9 nickase that only generates single-strand DNA nicks instead of double-strand breaks. Equipped with U6 promoter and BbsI cloning sites, it allows easy insertion of custom sgRNA sequences for co-expression with Cas9n. Applied in paired double-nicking strategy to cut off-target mutations and boost editing precision, it also supports homology-directed repair (HDR) for precise genome modification.

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 ℃.