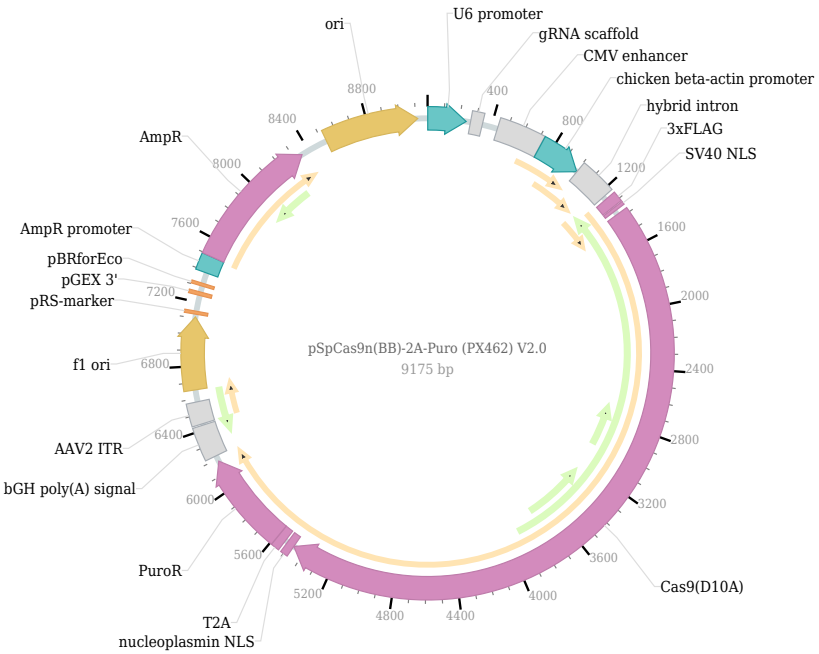
pSpCas9n(BB)-2A-Puro (PX462) V2.0

Vector ID	V006847
Antibiotic Resistance	Ampicillin
Length	9175 bp
Vector Type	Mammalian Expression, CRISPR

Product Information

Replication Origin	ori
Selection Marker	Puromycin
Promoter	CBh
Growth Strain(s)	Stbl3
Comment	pSpCas9n(BB)-2A-Puro (PX462) V2.0 is a mammalian CRISPR/Cas9 plasmid that expresses a humanized Streptococcus pyogenes Cas9 D10A nickase fused via a 2A peptide to puromycin resistance. The nickase cuts only one DNA strand; paired with two offset sgRNAs it creates a precise double-strand break, greatly reducing off-target effects in gene knockout and genome editing.

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 ℃.