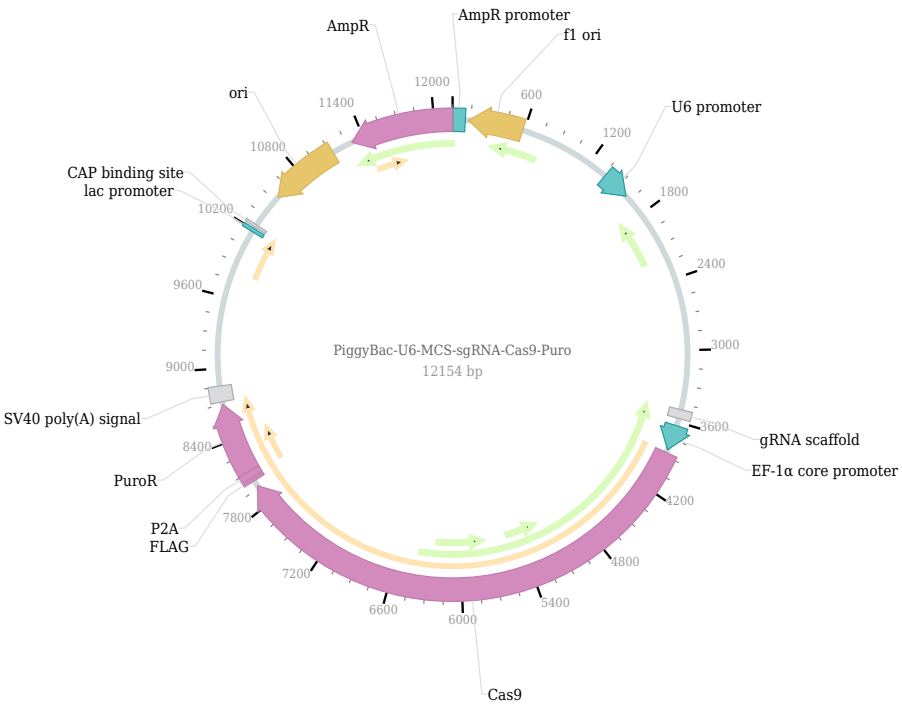
PiggyBac-U6-MCS-sgRNA-Cas9-Puro

Vector ID	V017970
Antibiotic Resistance	Ampicillin
Length	12154 bp
Vector Type	Gene-editing vector
Host	Mammalian cells

Product Information

Replication Origin	ori
Selection Marker	Puro
Promoter	CMV
3' Primer	Sv40-polyA-R
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	This vector mediates CRISPRi/a in human pluripotent stem cells via PiggyBac (stable integration), U6-driven sgRNA (MCS for targets), Cas9/dCas9 regulation, and Puro selection, supporting multi-gene control.

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 ℃.