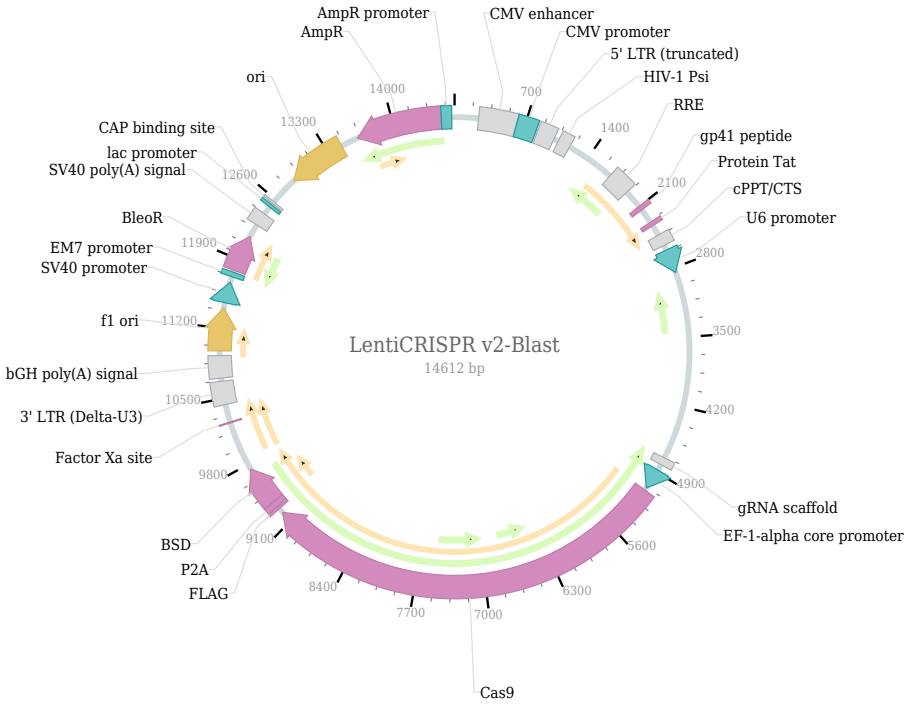
LentiCRISPR v2-Blast

Vector ID	V016982
Antibiotic Resistance	Ampicillin
Length	14612 bp
Vector Type	Gene knockout
Host	Mammalian cells, Lentivirus

Product Information

Replication Origin	ori
Selection Marker	Blast
Promoter	SV40
Growth Strain(s)	Stbl3
Growth Temperature	37℃
Comment	The LentiCRISPR v2-Blast plasmid is a lentiviral vector designed for CRISPR/Cas9-mediated gene knockout in mammalian cells. It expresses the Cas9 nuclease and a customizable single-guide RNA (sgRNA) from different promoters. A key feature is the blasticidin resistance gene, which replaces the original puromycin marker, allowing for selection of transduced cells using blasticidin. In bacteria, the plasmid is selected with ampicillin. Its all-in-one design facilitates efficient delivery and stable expression of CRISPR components for gene editing applications.

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 ℃.