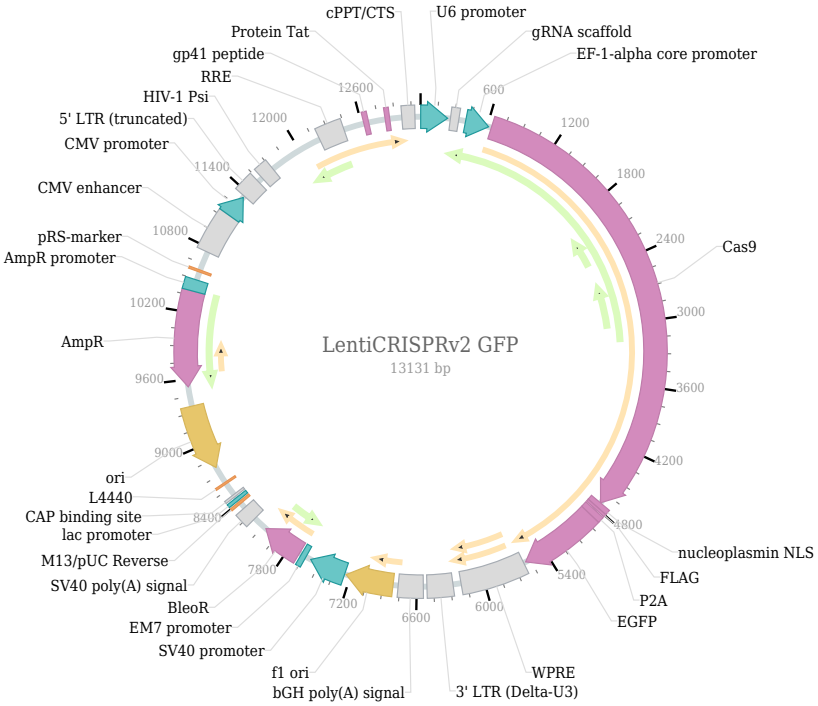
LentiCRISPRv2 GFP

Vector ID	V000763
Antibiotic Resistance	Ampicillin
Length	13131 bp
Vector Type	Lentiviral, CRISPR

Product Information

Replication Origin	ori
Promoter	SV40
Cloning Method	Gibson Cloning
5' Primer	ATGGTGTCTAAGGGCGAAGA
Growth Strain(s)	Stbl3
Comment	The LentiCRISPRv2 GFP vector (13131 bp) is a lentiviral construct designed for CRISPR-Cas9 genome editing. It co-expresses the SpCas9nuclease and a gRNA from a single transcript, with the gRNA scaffold located downstream of the EF-1-alpha core promoter and the U6 promoter driving gRNA expression. The Cas9 protein is tagged with FLAG and includes a nucleoplasmin NLS for efficient nuclear import, and is linked to EGFP via a P2A self-cleaving peptide for bicistronic expression.

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 ℃.