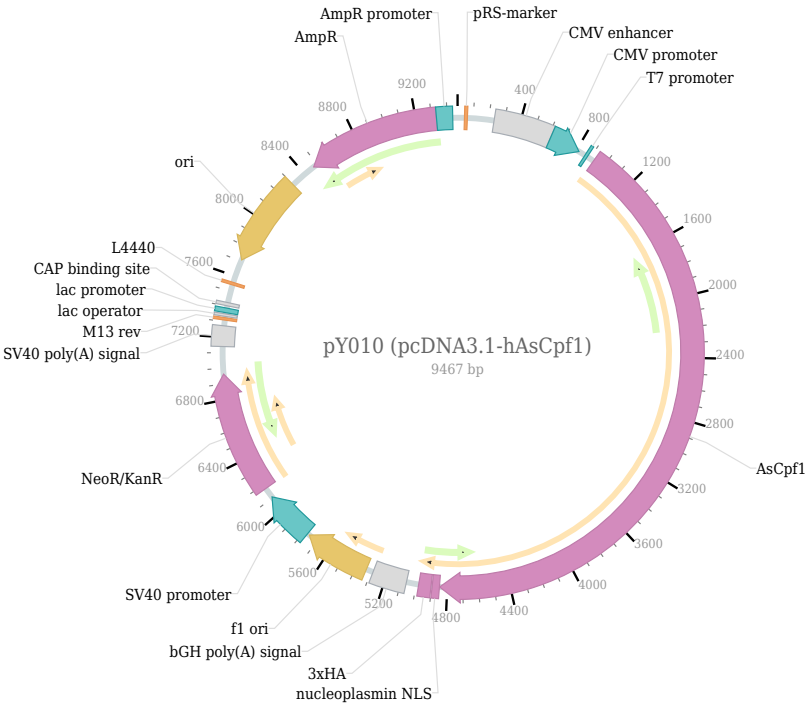
pY010 (pcDNA3.1-hAsCpf1)

Vector ID	V007158
Antibiotic Resistance	Ampicillin
Length	9467 bp
Vector Type	Mammalian Expression, CRISPR

Product Information

Replication Origin	ori
Selection Marker	Neomycin (select with G418)
Promoter	SV40
Cloning Method	Restriction Enzyme
5' Primer	CMV-F
3' Primer	BGH-rev
Growth Strain(s)	DH10B
Comment	pY010 (pcDNA3.1-hAsCpf1) is a CMV-driven mammalian expression plasmid encoding humanized AsCpf1/AsCas12a with C-terminal NLS-3xHA. With crRNA it recognizes TTTV PAMs and generates staggered dsDNA breaks, enabling CRISPR-Cas12a genome editing in mammalian cells.

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 ℃.