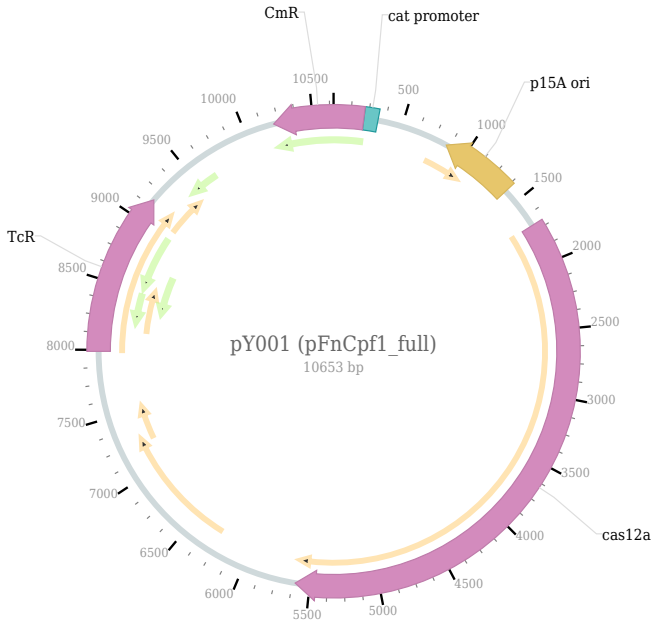
pY001 (pFnCpf1_full)

Vector ID	V011391
Antibiotic Resistance	Chloramphenicol
Length	10653 bp
Vector Type	Bacterial Expression, CRISPR

Product Information

Replication Origin	p15A ori
Copy Number	Low Copy
Growth Strain(s)	Stbl3
Comment	pY001 (pFnCpf1_full) (10.7 kb) is a bacterial CRISPR expression vector for genome editing in E. coli. It encodes the full FnCpf1 locus from Francisella tularensis subsp. novicida, including the Cas12a (formerly Cpf1) endonuclease and CRISPR array spacers 1-4. The vector uses a p15A origin for low-copy replication and carries CmR (chloramphenicol resistance) and TcR (tetracycline resistance) for dual antibiotic selection. It is based on the pACYC184 backbone

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 ℃.