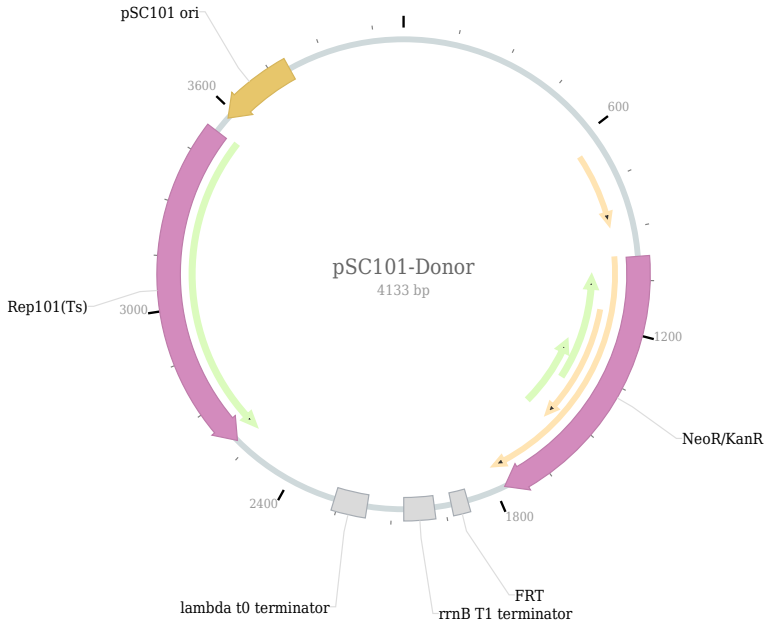
pSC101-Donor

Vector ID	V017332
Antibiotic Resistance	Kanamycin
Length	4133 bp
Vector Type	Protein expression
Host	Broad host

Product Information

Replication Origin	pSC101 ori
Copy Number	Low Copy
Growth Temperature	30℃
Comment	A kanamycin-resistant donor carrying the ShCAST system, which harbors a temperature-sensitive origin of replication from pSC101. Rep101(Ts) is a temperature-sensitive replication protein that functions only at low temperatures. Above 37°C, it becomes inactive, causing plasmid loss. Stable replication occurs at 30°C, >16 hours (or lower, e.g., 28–30°C). Please do not exceed 32°C.

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 ℃.