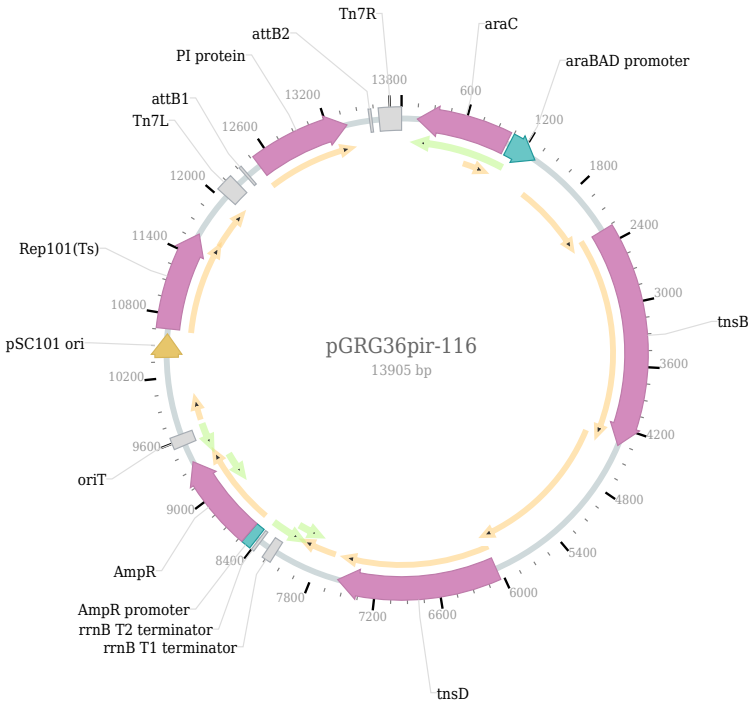
pGRG36pir-116

Vector ID	V005883
Antibiotic Resistance	Ampicillin
Length	13905 bp
Vector Type	Cloning vector

Product Information

Replication Origin	pSC101 ori
Source/Author	Kvitko BH, Bruckbauer S, Prucha J, McMillan I, Breland EJ, Lehman S, Mladinich K, Choi KH, Karkhoff-Schweizer R, Schweizer HP.
Copy Number	Low Copy
Promoter	araBAD
Growth Temperature	30℃
Comment	pSC101 ori is a low-copy replication origin that requires the Rep101 protein, which is a temperature-sensitive protein. When bacteria containing a plasmid with this ori is cultured at 37℃, the plasmid will be lost.

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 ℃.