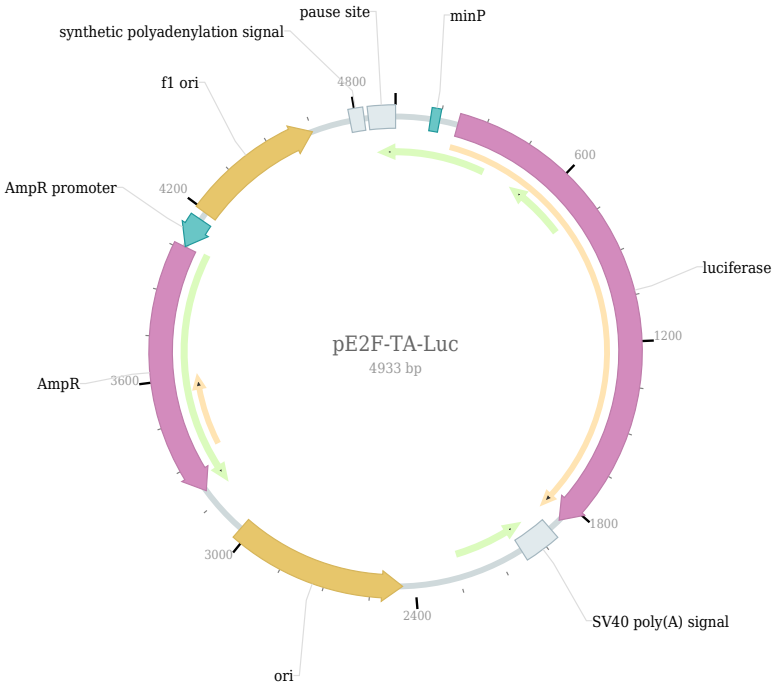
pE2F-TA-Luc

Vector ID	V006890
Antibiotic Resistance	Ampicillin
Length	4933 bp
Vector Type	Signal Pathway Reporter Vectors

Product Information

Replication Origin	ori
Cloning Method	Enzyme digestion and ligation
Growth Strain(s)	JM108
Growth Temperature	37℃
Comment	pE2F-TA-Luc is a signal pathway reporter vector used to monitor E2F-mediated transcriptional activity, which is crucial for studying cell-cycle regulation. It contains four E2F enhancer elements upstream of a minimal TA promoter, controlling the expression of the firefly luciferase reporter gene. This allows quantitative measurement of pathway induction. The vector backbone includes an ampicillin resistance gene for selection in E. coliand is 4882 bp in size.

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 ℃.