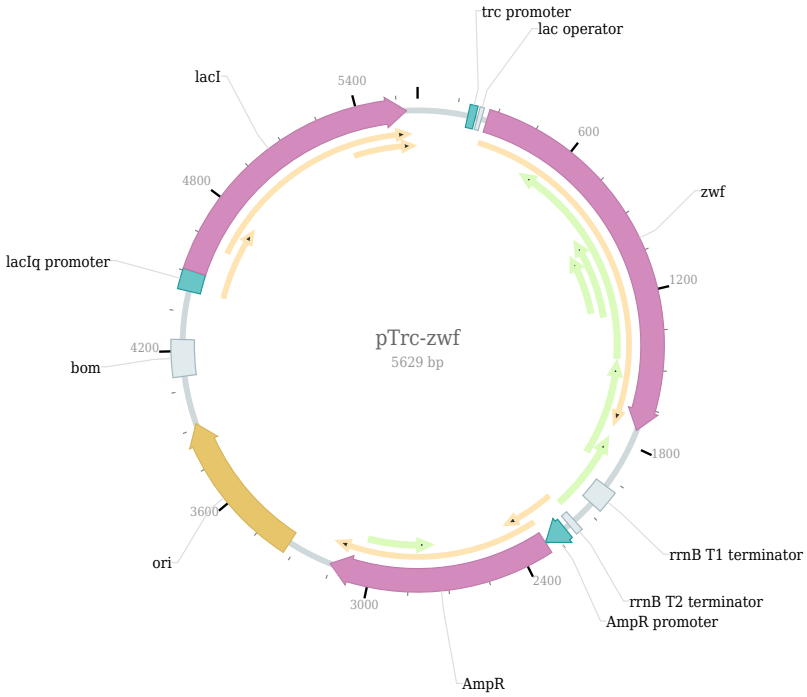
pTrc-zwf

Vector ID	V002544
Antibiotic Resistance	Ampicillin
Length	5629 bp
Vector Type	Cloning vector

Product Information

Replication Origin	ori
Source/Author	Kim B, Binkley R, Kim HU, Lee SY.
Growth Strain(s)	Top10
Comment	pTrc-zwf is an E. coli expression plasmid using the IPTG-inducible pTrc promoter to drive the E. coli zwf gene. zwf encodes glucose-6-phosphate dehydrogenase, the first enzyme of the oxidative pentose phosphate pathway that generates NADPH. The backbone carries AmpR, ColE1/pMB1 ori, lacIq, and rrnB T1/T2 terminators; it is used to boost NADPH supply and relieve metabolic burden.

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 ℃.