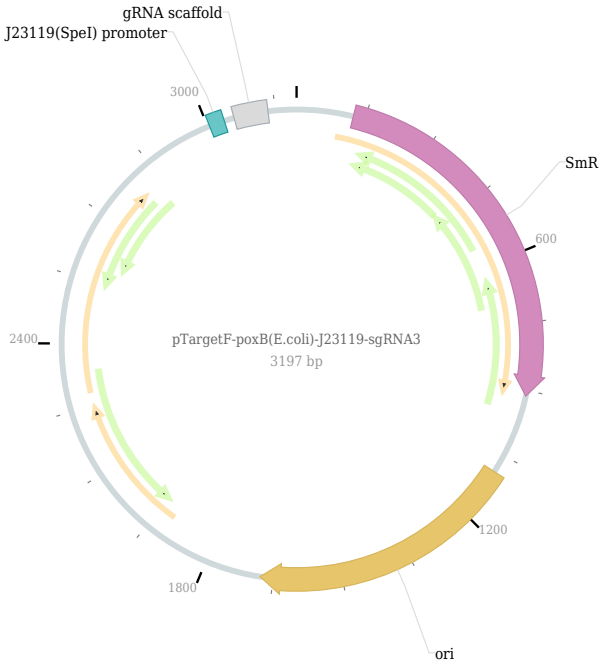
pTargetF-poxB(E.coli)-J23119-sgRNA3

Vector ID	V014093
Antibiotic Resistance	Streptomycin
Length	3197 bp
Vector Type	Gene knockout
Host	E. coli

Product Information

Replication Origin	ori
Promoter	J23119(SpeI)
Growth Strain(s)	DH10B
Growth Temperature	30℃
Comment	pTargetF-poxB(E.coli)-J23119-sgRNA3 is an E. coli CRISPR/Cas9 editing vector of the pCas/pTargetF system expressing sgRNA3 against the pyruvate oxidase (poxB) gene from the constitutive J23119 promoter. Paired with the pCas plasmid, it enables markerless poxB editing for metabolic engineering (Jiang et al. 2015).

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 ℃.