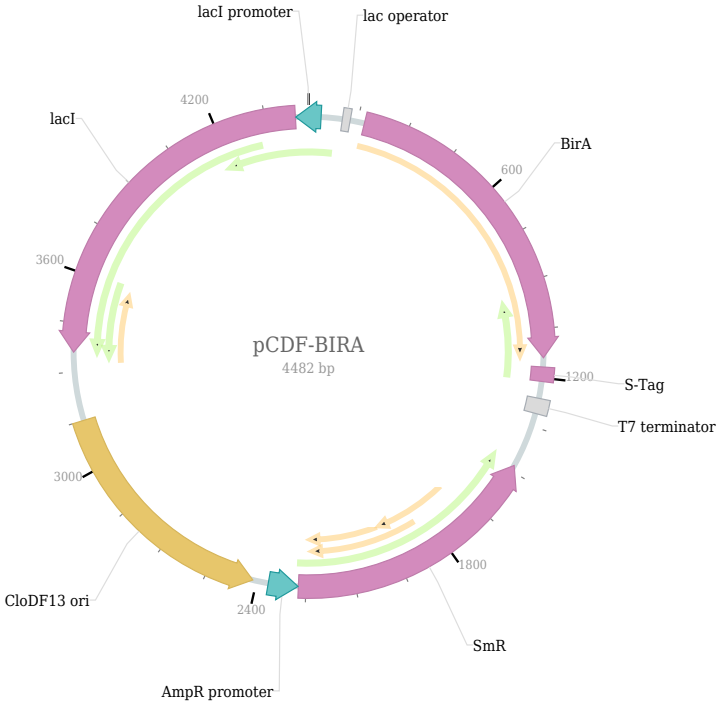
pCDF-BIRA

Vector ID	V008639
Antibiotic Resistance	Spectinomycin
Length	4482 bp
Vector Type	Co-expression vector

Product Information

Replication Origin	CloDF13 ori
Source/Author	Keates T, Cooper CD, Savitsky P, Allerston CK, Phillips C, Hammarstrom M, Daga N, Berridge G, Mahajan P, Burgess-Brown NA, Muller S, Graslund S, Gileadi O.
Growth Strain(s)	Stbl3
Growth Temperature	37℃
Comment	The pCDF-BIRA is a prokaryotic expression plasmid derived from the pCDF vector backbone (containing the CloDF13 replicon and streptomycin/spectinomycin resistance). It is designed for the inducible expression of BirA biotin protein ligase in Escherichia coli. BirA catalyzes the site-specific biotinylation of target proteins fused with an Avi-tag, and is widely used for protein labeling, purification, and interaction studies [1,2].

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 ℃.