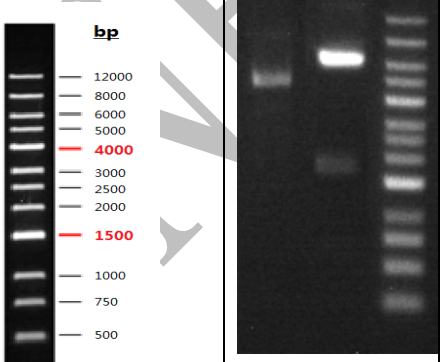
CERTIFICATE OF ANALYSIS

Vector Name	pCC1FOS	**Catalog No.**	V008674
Project/Lot No.	G0393543-1/ E55052	**Strain**	EPI400
Quantity	200ug	**Resistance**	Chloramphenicol

QC Results

Test Items	Specifications	Results
Appearance	Clear, no visible particles	Pass
Concentration	On request, default	Pass
A260/280	1.8 - 2.0	Pass
A260/230	>2.0	Pass
Supercoiled content	No request	N/A
Residual RNA	Not visible upon electrophoresis	Pass
Genomic DNA	Not visible upon electrophoresis	Pass
Restriction Analysis	Conforms to reference	Pass
Bioburden assay	No growth on agar plate after 24 hours	N/A
Endotoxin Test	Verified, (Endo-Free Preps Only)	N/A
Label	Correct and white	Pass
Sequencing	Correct	Pass
Comments	-	-

Restriction Digestion Map



Lane 1: Plasmid DNA

Lane 2: Plasmid digested by NcoI (1869/6270 bp in theory)

Lane M: DNA Marker

Certified by: Chou Fang
Date: Dec/09/2025
Valid until: Dec/09/2028

CONFIDENTIAL

Note

BAC and fosmid clones are highly suitable for modification by recombineering but, because they are present at low (1-2) copies per cell, the DNA is difficult to isolate in high yield and purity. To overcome this limitation vectors, e.g. pCC1BAC/pCC1FOS, have been constructed that contain the additional replication origin, oriV, which permits copy-number to be induced transiently when propagated in a suitable host strain, e.g. EPI300, that supplies the cognate trans-replication protein TrfA.

Protocol for EPI400/EPI300

a) Add 4 ml LB media into each test tube. Inoculate each tube with bacterial culture with antibiotic at the proper concentration.

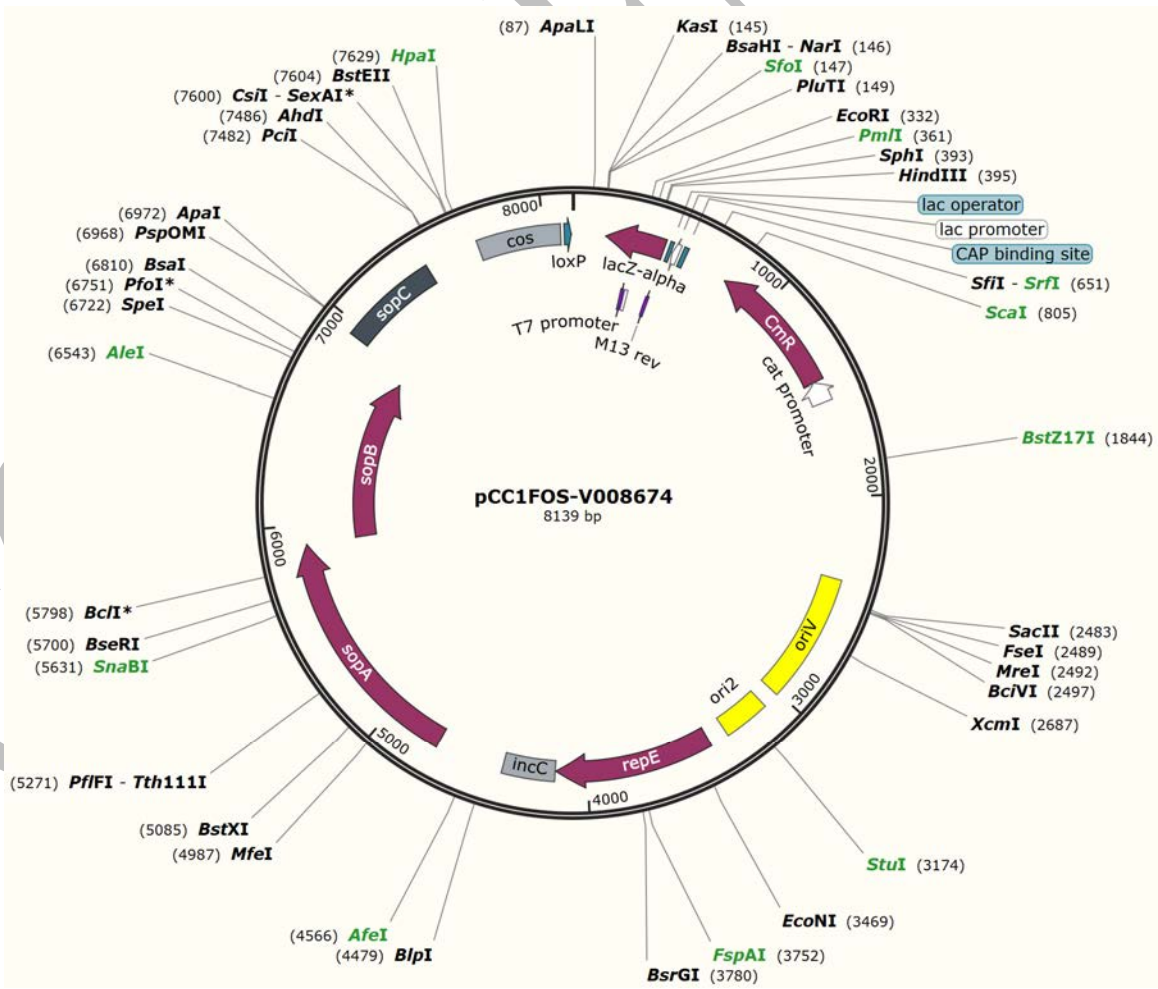
b) Incubate the tubes at 37°C, shaking overnight.

c) Dilute the starting culture (from step b) 1:10 into antibiotic-supplemented fresh media.

d) Supplement induction solution with a ratio of 1:1000, and grow the culture at 37°C for 4 h with vigorous shaking (approx. 250 rpm).

e) Isolate DNA from the induced culture cells as per the protocol provided

Vector Map



CONFIDENTIAL