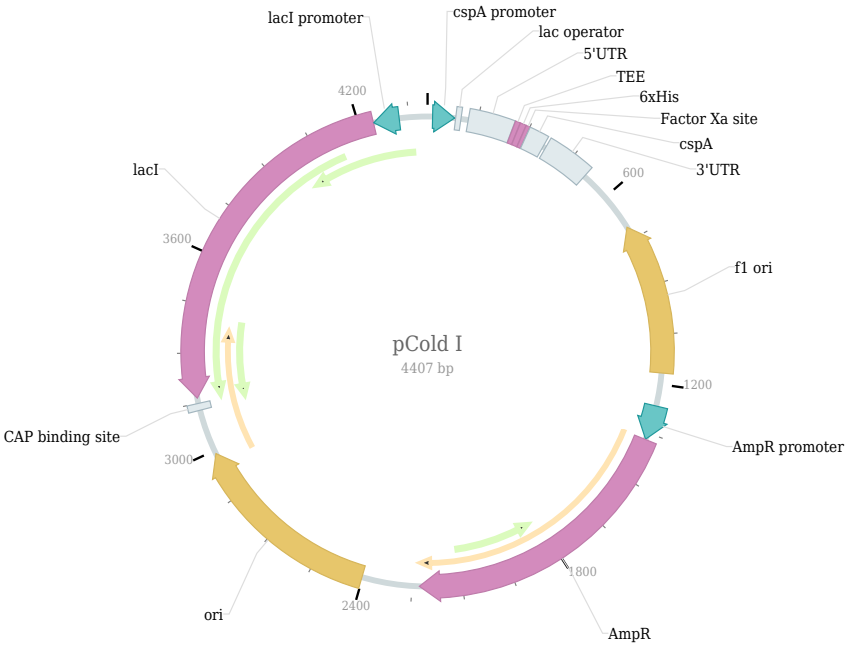
pCold I

Vector ID	V008316
Antibiotic Resistance	Ampicillin
Length	4407 bp
Vector Type	Expression vector

Product Information

Replication Origin	ori
Source/Author	Qing G, Ma LC, Khorchid A, Swapna GV, Mal TK, Takayama MM, Xia B, Phadtare S, Ke H, Acton T, Montelione GT, Ikura M, Inouye M.
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	The pCold I plasmid is an E. coli cold-shock expression vector. It uses the cspA promoter to induce high-yield recombinant protein expression at low temperatures (e.g., 15°C), which enhances solubility and reduces host protein interference. It features an N-terminal 6xHis-tag and a Factor Xa cleavage site for purification and tag removal.

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 ℃.