pCANTAB5E

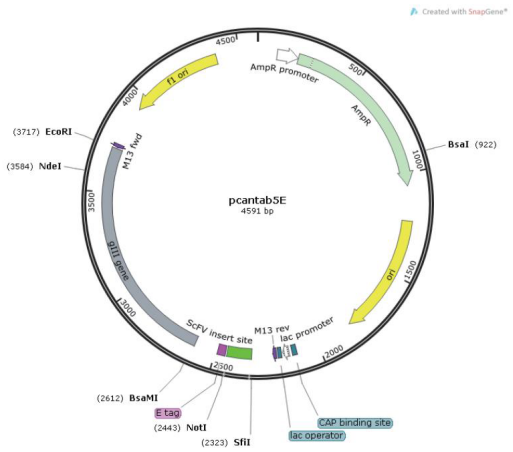
Summary

Code	P005
Promoter	Lac/lac promoter
Plasmid size	5216bp
Plasmid tagging	N-g3 signal, C-E tag
Prokaryotic resistance	ampicillin Amp
Clone strain	Escherichia coli DH5α
Culture conditions	37 C, aerobic, LB

Description

The vector pCANTAB5e is used to construct recombinant scFv. It has ampicillin resistance and the size is 4522 bp. This system is used for antibody gene expression and preparation of recombinant antibody. The host strain TG1 was replicated and expressed by plasmid vector pCANTAB5e, and was cultured on 2 *YT medium at 37 C.The auxiliary phage M13K07 is used to rescue the phage particles. It is Kana-resistant and can be replicated by the auxiliary phage and expressed on the phage surface in the form of fusion. There is a sequence encoding Tag tail peptide (E-Tag) behind the scFv gene. There is an amber termination codon behind the tail peptide. It is located between the scFv gene and the cpIII gene. In the inhibitory bacteria TG1, only 20% of the amber codon is effective, so it can be read through the protein translation process to form scFv-cp. In non-inhibitory strains, such as HB2151, the terminator is recognized, and the scFv gene terminates before the cpIII gene in the translation process, forming an independent antibody protein that remains in the cell membrane gap, and leaks into the culture medium after a long period of culture to form soluble expression.

Vector map



Related products

Product name	Size	Cat#
pComb3Xss	1μg	P001
pComb3XTT	1μg	P002
pComb3XLambda	1μg	P003
pComb8	1μg	P004
pCANTAB5E	1μg	P005
Helper phage M13K07	1mL	P006
Helper phage VCSM13	1mL	P007
E.coli TG1	1mL	P008
E.coli ER2738	1mL	P009
E.coli XL1-blue	1mL	P010
E.coli SS320	1mL	P012
E.coli TOP10 F′	1mL	P016