pComb3XLambda

Summary

Code	P003
Bacterial Resistance(s)	Ampicillin
Growth Temperature	37°C
Growth Strain(s)	TG1
Copy number	High Copy
Insert Size (bp)	1600
Promoter	lacZ
Tags / Fusion Proteins	*6x His (C terminal on backbone) *HA tag (C terminal on backbone) *geneIII (C terminal on backbone)
5' sequencing primer	5'-AAG ACA GCT ATC GCG ATT GCA G-3'
3' sequencing primer	5'-GCC CCC TTA TTA GCG TTT GCC ATC-3'

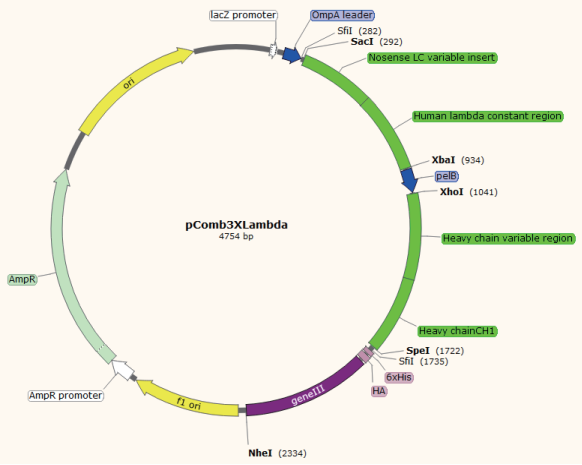
Description

pComb3X is the newest of the pComb vectors. Improvements over pComb3 include increased stability and introduction of an asymmetric SfiI cassette for directional cloning of full Fab, scFv, peptide and other protein for phage display. 6xHis and HA tags allow for purification and detection. An amber stop codon was introduced to turn-off expression of the pIII fusion protein by switching to a non-supressor strain of E. coli allowing production of soluble protein without subcloning. Alternatively, the gene for phage protein pIII can be removed by SpeI/NheI digest. pComb3XLambda can be used as a template to amplify the lambda light chain constant region for construction of chimeric antibody libraries as described in:

Barbas, C. F., III; Burton, D. R.; Scott, J.K., Silverman, G.J. Eds. (2001) Phage Display: A Laboratory Manual; Cold Spring Harbor Laboratory Press: Cold Spring Harbor, New York

Please note that there is a A246V mutation in heavy chain region; however, this vector is meant to be used as a PCR template for the light chain region from base# 613-1016.

Vector map



Related products

Product name	Size	Cat#
pComb3Xss	10μg	P001
pComb3XTT	10μg	P002
pComb3XLambda	10μg	P003
pComb8	10μg	P004
pCANTAB5E	10μg	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