pComb3Xss

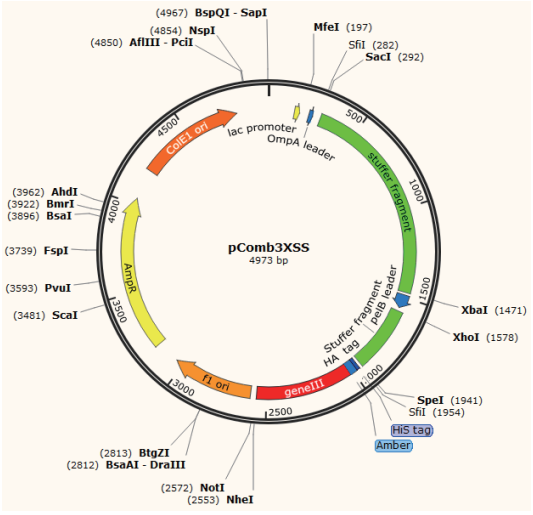
Summary

Code	P001
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. pComb3XSS is recommended for preparation of vector for library cloning. The “SS” refers to the double stuffer, a 1200bp stuffer in the Fab light chain cloning region bounded by SacI and XbaI restriction sites and a 300bp stuffer in Fab heavy chain cloning region bound by XhoI and SpeI restriction sites. Also, the 1600bp double stuffer (both stuffers plus the leader sequence between the Fab light chain and heavy chain cloning regions) can be removed by SfiI digest so that non-Fab genes of interest can be cloned. Also available on Addgene: pComb3XTT and pComb3XLambda are only needed at templates for the construction of chimeric Fab libraries as described in Phage Display: A Laboratory Manual. pComb3XTT can also be used as an Fab expression control.

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