# pComb8

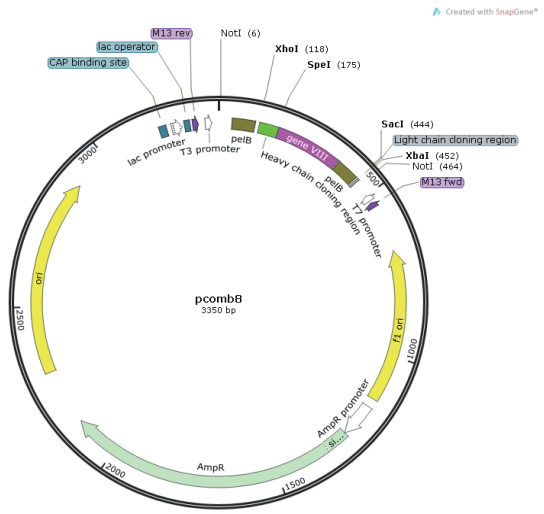
## Summary

| | |
|---|---|
| Code | P004 |
| 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)<br>*HA tag (C terminal on backbone)<br>*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 CGG TTT GCC ATC-3' |

## Description

pComb8 is nearly identical to the original pComb3 vector but contains the phage pVIII fusion protein for multi-valent expression along the sides of the phage via fusion with pVIII. It was designed for phage display of Fabs which are cloned into two separate cloning cassettes one chain at a time using SacI/XbaI restriction sites (for the light chain) and XhoI/SpeI restriction sites (for the heavy chain). The heavy chain is expressed fused to the pVIII. Both cassettes have the pelB leader sequence, the light chain and heavy chain-geneVIII fusion product assemble in the periplasm to form the Fab fragment. Soluble Fab can be expressed by removing the gene for the pVIII phage fusion protein by SpeI/NheI digest. Sufficient soluble protein is also found in the periplasmic space as a result of proteolysis.

## 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 |