

Resource Summary Report

Generated by [RRID](#) on Aug 21, 2026

[pComb3](#)

RRID:Addgene_63888

Type: Plasmid

Proper Citation

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Plasmid Information

URL: <http://www.addgene.org/63888>

Proper Citation: RRID:Addgene_63888

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:1896445](#)

Vector Backbone Description: Backbone Size:3000; Vector Backbone:pBluescript; Vector Types:Bacterial Expression, phage display; Bacterial Resistance:Ampicillin

Comments: The original pComb3 vector 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-geneIII fusion product assemble in the periplasm to form the Fab fragment. This vector system has also been used for the display of a wide variety of other proteins like zinc fingers, peptides, and cDNA fragments. Phage can be produced which express Fab or other proteins or peptides of interest fused to the phage pIII protein for expression on the head of the phage. Soluble Fab can be expressed by removing the gene for the pIII phage fusion protein by SpeI/NheI digest. Sufficient soluble protein is also found in the periplasmic space as a result of proteolysis.

Plasmid Name: pComb3

Record Creation Time: 20220422T222406+0000

Record Last Update: 20260815T081806+0000

Ratings and Alerts

No rating or validation information has been found for pComb3.

No alerts have been found for pComb3.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 3 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#) .

Salih Do??an H, et al. (2026) Novel recombinant VH43 antibody fragment potentiates the antibacterial activity of cephalosporins against *Enterococcus faecium*. Archives of microbiology, 208(5).

Li H, et al. (2025) Construction and application of a large capacity VNAR library from the whitespotted bamboo shark (*Chiloscyllium playgiosum*). Acta pharmaceutica Sinica. B, 15(4), 1912.

Rader C, et al. (2024) The pComb3 Phagemid Family of Phage Display Vectors. Cold Spring Harbor protocols, 2024(8), pdb.over107756.