

Phage

Display

Plasmid

Vectors

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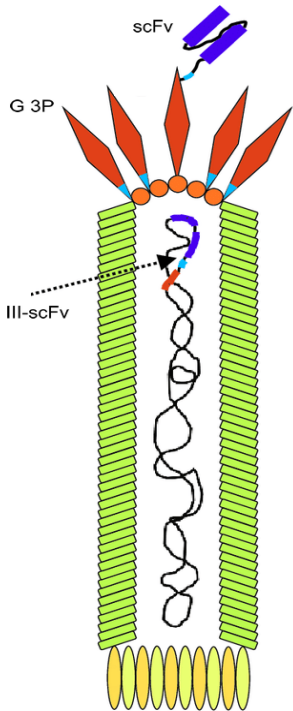
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Phage Display Technology

Phage Display Technology was first described by Dr. George P. Smith in 1985. It is a technique that uses bacteriophages to display or present foreign targets on its outside while containing the encoding DNA sequences for the target on its inside. The most commonly used bacteriophages in phage display are M13, fd filamentous phage, T4, T7 and λ phage.

The displaying phages can then be used in a process known as Biopanning to screen specific binding partners. The procedure of Biopanning involves five major steps,



- 1) Construction of phage display libraries by fusing target DNA sequences into a phage coat protein gene, e.g., genes pIII or pVIII of M13,
- 2) Incubation of phage display libraries with targets,
- 3) Washing away unbound phages,
- 4) Elution of target-bound phages,
- 5) Amplification and re-selection of bound phages through multiple rounds of the Biopanning.

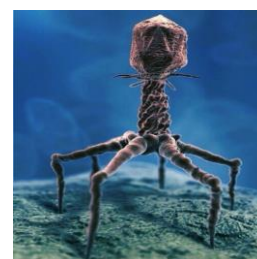
Phagemid Vectors

Phage Display Plasmid Vectors, or named as Phagemid Vectors, contain origins for replication in bacteria, an antibiotic resistance gene for selection positive bacterial clones, and an encoding DNA sequence for expressing a phage coat protein fused with a foreign target. In contrast to traditional Bacteriophage vectors, Phagemid Vectors do not require helper phages to replicate in *E. coli* but require helper phages to assemble and release displaying phage particles. Additionally, Phagemid Vectors are relatively in small size which makes them easy to be manipulated using recombinant DNA technology and transformed into bacteria. The small size of the Phagemid Vectors also enables researchers to display large proteins such as full-length antibodies.



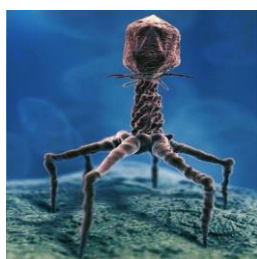
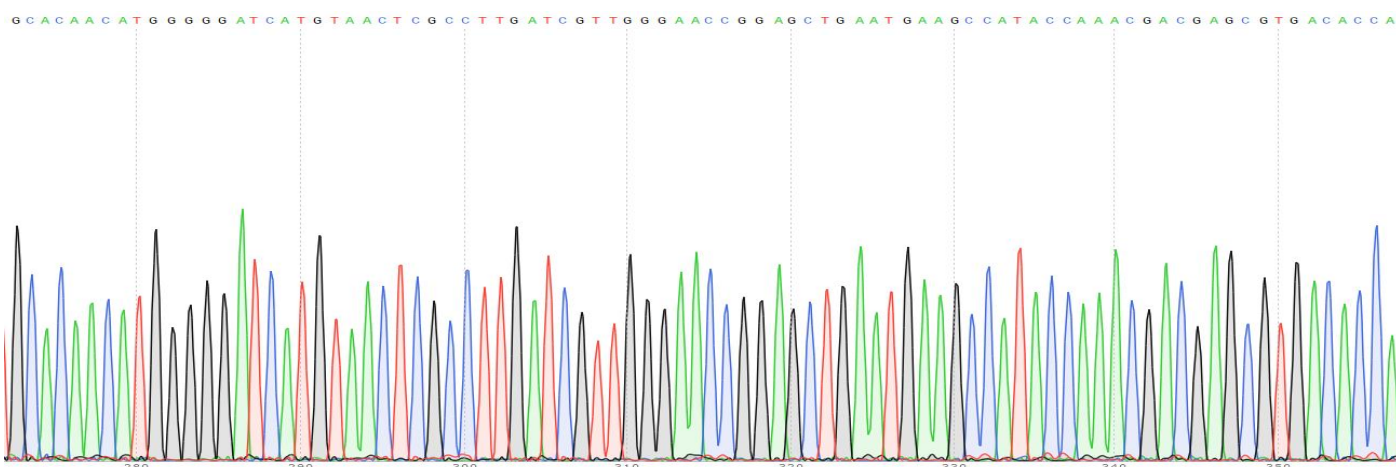
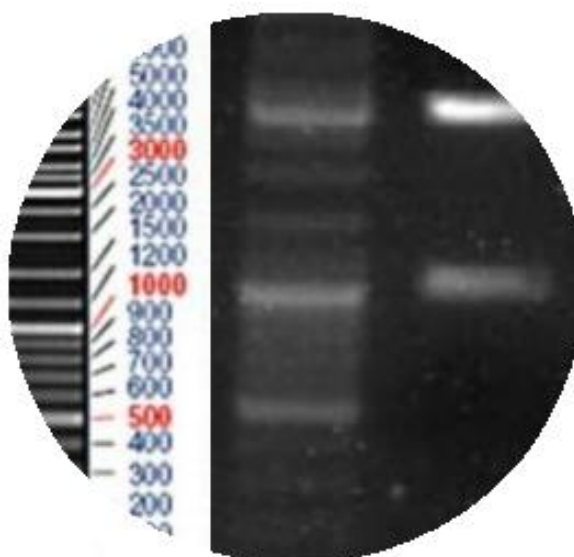
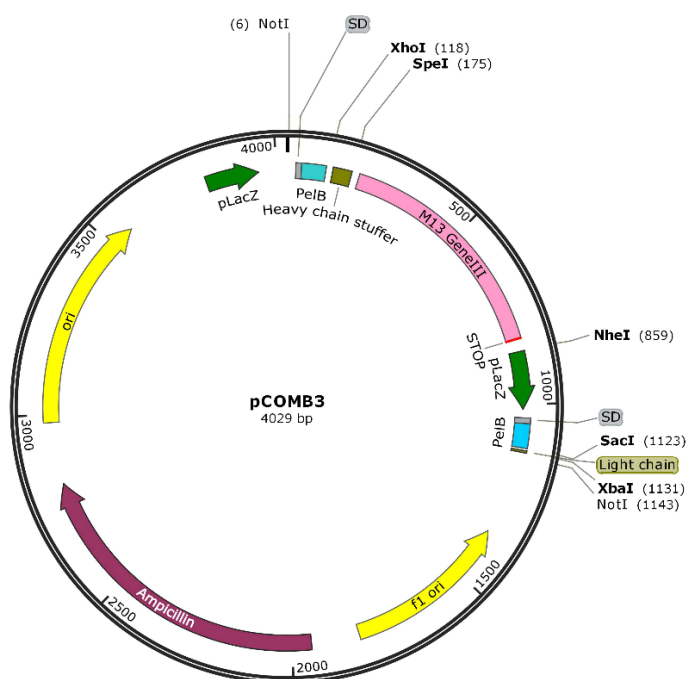
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RGBioTech offers high quality phagemid vectors to assist your phage display experiments.

- Each plasmid is fully sequenced and digested by enzyme(s) to make sure its sequence accuracy.
- All plasmids are provided as lyophilized powder to increase product stability and reduce shipping cost.



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Please browse below of our product list and contact us at admin@rgbiotech.com for price and detailed product information. If you could not find the vector of interest, please contact us for custom design and construction services.

Item Name	Item No.	Price
pCOMB3 Plasmid Vector	PPD001	Inquiry
pCOMB8 Plasmid Vector	PPD002	Inquiry
pCOMB3XLamda Plasmid Vector	PPD003	Inquiry
pCOMB3XSS Plasmid Vector	PPD004	Inquiry
pCOMB3XTT Plasmid Vector	PPD005	Inquiry
pCOMB3HSS Plasmid Vector	PPD006	Inquiry
pCOMB3HTT Plasmid Vector	PPD007	Inquiry
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