



**1** Smith introduced a gene into the gene for a protein in the phage's capsule. The phage DNA was then inserted into bacteria that produced phages.

**2** The peptide produced from the introduced gene ended up as part of the capsule protein on the surface of the phage.

**3** Smith was able to fish out the phage using an antibody designed to attach to the peptide. As a bonus, he got the gene for the peptide.