



Seamless Cloning Kit

Recombinant-based seamless cloning technology offers a simple, fast, and efficient method for DNA directional cloning without the need for laborious enzymatic digestion, ligation steps, or end-blunting procedures. This technique relies on the recombination of DNA fragments with 15 to 25 nucleotides of homologous sequences at the ends of linearized vectors. It allows the cloning of insert fragments into any desired position of a linear vector, with minimal self-ligation background.

The Seamless Cloning Kit enables the recombination of single or multiple DNA fragments in a single reaction. It can achieve single fragment assembly in as little as 5 minutes, with a positive clone rate exceeding 95%. The mix contains auxiliary factors that effectively enhance the cloning efficiency, and the optimized reaction system tolerates impurities present in unpurified PCR products to some extent. The upgraded version of the seamless cloning kit offers higher positive clone rates and improved compatibility.

Kit components:

1. DNA Assembly Mix Plus: 250 μ L
2. pUC19 Control Plasmid, Linearized [Amp^r, 40ng/ μ L]: 5 μ L
3. 500bp Control Fragment [20ng/ μ L]: 5 μ L

Catalog No.	515002
Size	50 preps
Product Category	Cloning / Ligation
Storage/Stability	-20°C/1 year
Shipping	Gel Packs