Ultra DNA Assembly Kit (Gibson Assembly)

Ultra DNA Assembly Kit is a kind of seamless assembly method; and it does not require digestion, ligation or end repair therefore it offers an easy, fast and efficient DNA cloning technique. This method has been used to assemble different sizes of DNA fragments with varied overlaps (15~30 bp).

The kit allows for the assembly of one or multiple DNA fragments in a single reaction, with single-fragment insertion completed in as little as 5 minutes and a positive rate exceeding 95%. The DNA Assembly Mix supplied in the kit uses HiFi Taq DNA Ligase, which has higher fidelity compared to wild-type Taq DNA Ligase, significantly improving the success rate of seamless cloning. Additionally, it includes a transformation enhancer, greatly increasing the number of transformants. While ensuring high fidelity and transformation efficiency the DNA Assembly Mix has optimized its components to enhances ability, making it more stable under high temperature or oxidic conditions.

Applications: Rapid cloning; Multi-fragment DNA assembly; Site-directed mutagenesis.

Kit Components:

1. DNA Assembly Mix: 250uL
2. pUC19 Control Plasmid, Linearized (Amp?, 40ng/uL): 5uL
3. 500 bp Control Fragment (20ng/uL): 5uL

Catalog No.	514003
Size	50 rxns
Product Category	Cloning / Ligation
Storage/Stability	-20°C/1 year
Shipping	Gel Packs