

Quick Assembly Cloning Kit

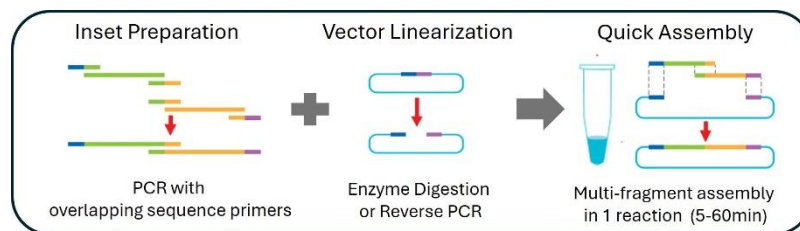
The Quick Assembly Cloning Kit utilizes seamless cloning technology based on the recombination of 15-25 nt homologous sequences between the insert fragments and the linearized vector ends. This method eliminates the need for restriction enzyme digestion and ligation.

In seamless cloning, DNA fragments can be cloned into any site of any vector without introducing extra sequences. The system ensures high recombination efficiency with minimal background from vector self-ligation, providing a simple, rapid, and efficient solution for DNA cloning.

The Quick Assembly Cloning Kit has optimized for superior efficiency and thermal stability through the following improvements:

- **High Fidelity:** Utilizes HiFi Taq DNA Ligase to ensure sequence accuracy.
- **Optimized Performance:** optimized formula enhances product stability and yields a higher number of transformants.

3 steps of workflow:



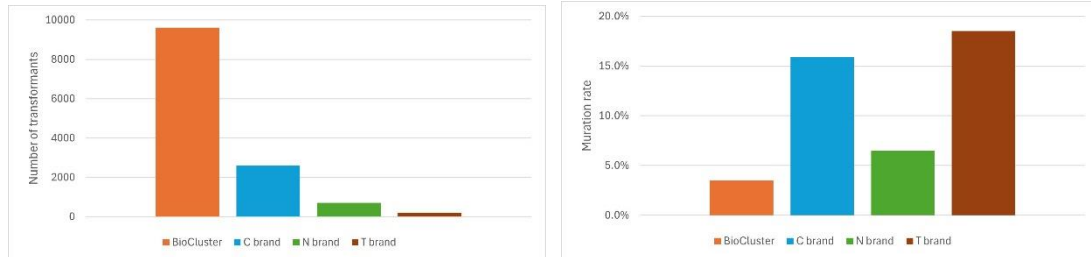
Key Features:

- **Flexible inserts:** Compatible with PCR products and restriction enzyme digested DNA fragments.
- **High accurate assembly:** Ordered assembly, no reverse orientation
> 95% positive rate
< 5% mutation rate
- **Speedy reaction:** Reaction only takes 5-60 min. Simultaneous assembly of single or multiple DNA fragments.
- **Endurable performance:** Resistance to high temperature, oxidation, repeated freeze-thaw cycles.

Performance Tests:

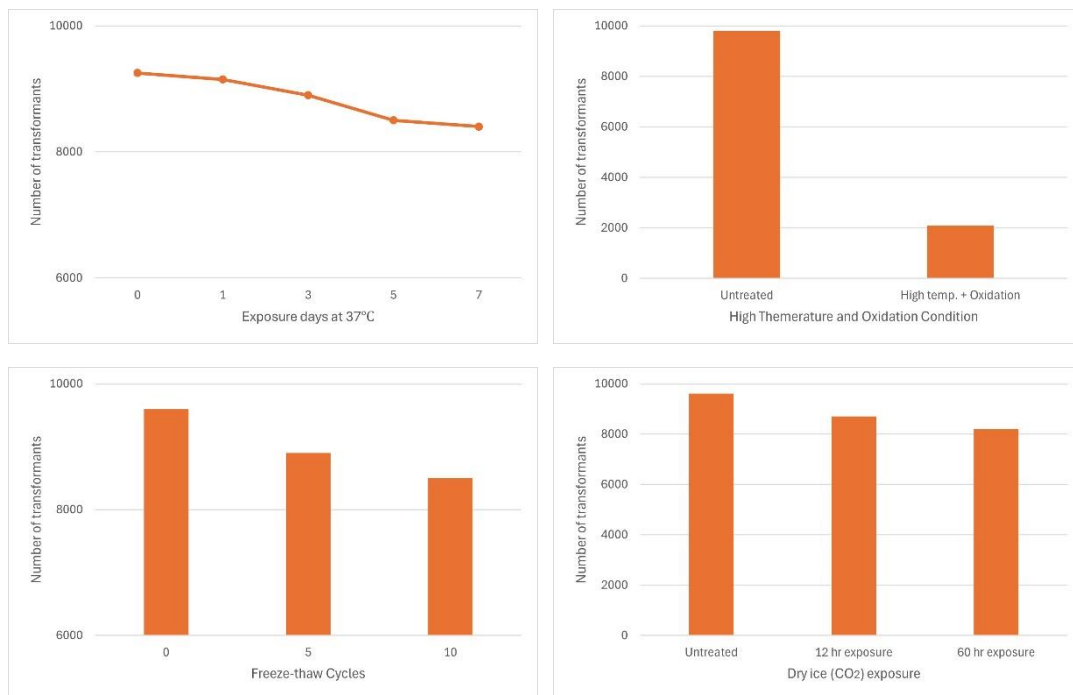
1. High transformation efficiency and low mutation rate:

Quick assembly cloning kit offers significant advantage in the number of transformants and mutation rate for multi-fragment cloning.



2. Endurable performance, resilient to extreme conditions:

Quick assembly cloning kit has improved stability. It ensures sufficient numbers of positive transformants even under adverse conditions such as high temperatures, oxidation, repeated freeze-thaw cycles, or pH variation (dry ice exposure).



Ordering Information:

Cat. No.	Product Name	Size
2901-020	Quick Assembly Cloning Kit	20 reactions