



NGS Quick Ligation Module

Catalog Number: E114-1, E114-2

Table 1. Kit Components and Storage

Kit Component	E114-1 (20 rxn)	E114-2 (100 rxn)	Storage	Stability
Quick T4 DNA Ligase	100 μ L	500 μ L	-20 °C, avoid repeated free-thaw	The product is stable for 12 months when stored as directed.
Quick Ligation Reaction Buffer (5x)	200 μ L	1.0 mL		

Product Description

The NGS Quick Ligation Module is optimized to ligate DNA adaptors compatible with Illumina sequencing to end-repaired, dA-tailed DNA fragments. The module is optimized for use with the NGS End Repair Module (Cat #E112-1, E112-2) and the NGS dA-Tailing Module (Cat #E113-1, E113-2) and is part of the NGS DNA library prep workflow, which is suitable for 1–5 μ g of input DNA.

Applications

- ❖ Ligation of DNA adaptors to blunt or dA-Tailed DNA.
- ❖ Ligation of blunt or dA-Tailed DNA to cloning vectors.
- ❖ DNA sample preparation.

Protocol

1. Assemble the following reaction in a microcentrifuge tube on ice:

End Repaired, Blunt or dA-Tailed DNA	1-5 μ g
Quick Ligation Reaction Buffer (5x)	10 μ L
DNA Adaptors	variable
Quick T4 DNA Ligase	5 μ L
Nuclease-free water	to 50 μ L
Total volume	50 μ L
2. Mix gently and spin down for a few seconds.
3. Incubate at 20°C for 30 min.
4. Purify DNA Sample using AMPure XP beads.