



NGS dA-Tailing Module

Catalog Number: E113-1, E113-2

Table 1. Kit Components and Storage

Kit Component	E113-1 (20 rxn)	E113-2 (100 rxn)	Storage	Stability
Klenow Fragment (3'→5' exo ⁻)	60 µL	300 µL	-20 °C, avoid repeated free-thaw	The product is stable for 12 months when stored as directed.
dA-Tailing Reaction Buffer (10×)	100 µL	500 µL		

Product Description

The NGS dA-Tailing Module is used to efficiently incorporate a non-templated dAMP on the 3' end of a blunt DNA fragment. 3'-dA DNA tailing prevents concatamer formation during subsequent ligation steps. DNA tailed with the NGS dA-Tailing module may be ligated to adaptors or cloning vectors with complementary dT overhangs. The NGS dA-Tailing Module is provided as a master mix to maximize efficiency and convenience in DNA sample preparation workflows.

The module is optimized for use with the NGS Quick Ligation Module (Cat #E114-1, E114-2), and is part of the NGS DNA library prep workflow for Illumina sequencing.

Applications

- ❖ dA-Tailing of fragmented DNA.
- ❖ DNA sample preparation.

Protocol

- Assemble the following reaction in a microcentrifuge tube on ice:

End Repaired, Blunt DNA	1-5 µg
dA-Tailing Reaction Buffer (10×)	5 µL
Klenow Fragment (3'→5' exo ⁻)	3 µL
Nuclease-free water	to 50 µL
Total volume	50 µL
- Mix gently and spin down for a few seconds.
- Incubate at 37°C for 30 min.
- Purify DNA Sample on one spin column.