

Automated Solution for the Illumina® Stranded mRNA Prep, Ligation Kit

RNA library preparation on the epMotion® 5075t NGS Solution



Ligation-based RNA library preparation is a labour intensive process with several sub methods that requires technical know-how, precision and accuracy to generate high-quality libraries. Simplify your RNA library prep with pre-qualified and ready-to-run methods for the Illumina Stranded mRNA Prep kit on the epMotion® 5075t NGS Solution.

Product features

- > Calibrated 1-channel and 8-channel dispensing tools for precise liquid handling from 0.2 µL to 1 mL
- > Integrated Eppendorf ThermoMixer® and thermal module for efficient mixing and reliable temperature control
- > High-quality NGS-specific consumables and space saving accessories are included
- > Intuitive and easy-to-use epBlue software
- > Email notification option and integrated status lighting keeps you informed about the status of your library prep run

Your advantages

- > **Better results:** Eliminate manual pipetting errors to generate high-quality libraries
- > **Increased throughput:** Up to 96 samples can be processed without compromising data quality
- > **Improved productivity:** Automatic dispensing tool exchange allows uninterrupted library prep
- > **Greater flexibility:** Supports different tube and plate formats
- > **Enhanced safety:** Fully autoclavable dispensing tools and easy to disinfect worktable minimizes cross contamination while the optional UV lamp and HEPA filter provides clean air conditions
- > **Walkaway automation:** Ligation and incubation steps as well as upstream nucleic acid purification can be performed on-deck

Request your demo today!

www.eppendorf.com/automation

Workflow Overview



Figure 1: Automated workflow for the Illumina® Stranded mRNA Prep kit on the epMotion® 5075t NGS Solution. Steps highlighted in dark brown can be automated on the epMotion® liquid handler.

Protocol Overview

epMotion 5075t NGS Solution

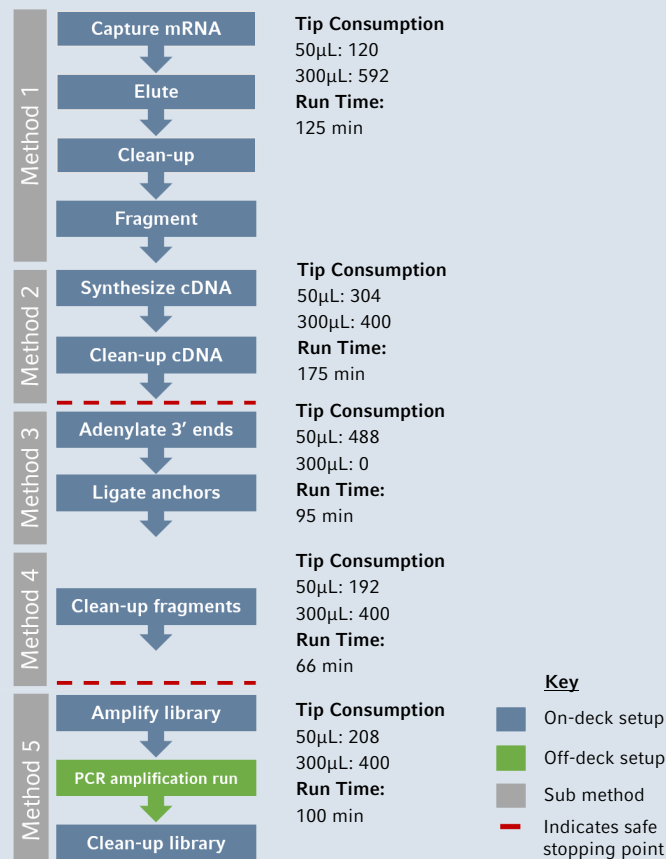


Figure 2: Overview of the sub-methods for the Illumina® Stranded mRNA Prep kit on the epMotion® 5075t NGS Solution.

Worktable Configuration

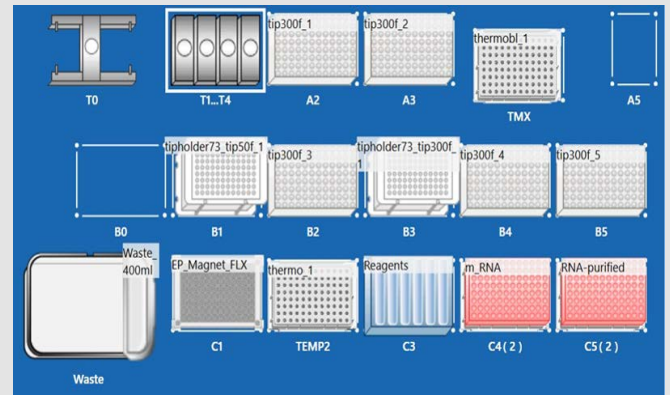


Figure 3: Worktable layout for processing Method 1 on the epMotion® 5075t NGS Solution.

Application Data

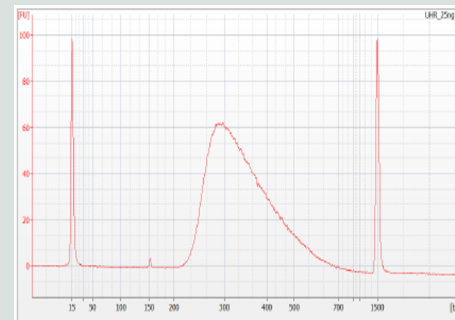


Figure 4: Analysis of 1 µL final enriched library using the Agilent 2100 Bioanalyzer and DNA 1000 kit.¹

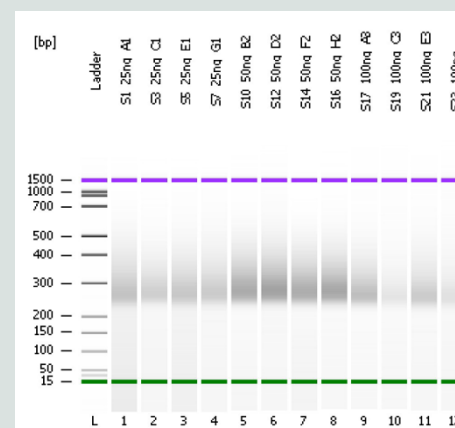


Figure 5: QC results of final libraries from 25ng of input using the Bioanalyzer.¹

References

[1] Eppendorf Application Technologies, March 2021, NGS Libraries preparation on epMotion®: Illumina® Stranded mRNA Prep Ligation.

Contact your sales specialist for more information: