

TECH NOTE NO. 24 CyBi®-FeliX

NGS library preparation with HaloPlex Target Enrichment System for Ion Torrent™ Sequencing (Agilent)

INTRODUCTION

Analytik Jena's product family includes the CyBi®-FeliX a flexible liquid handling platform which is a compact system for a variety of automated liquid handling tasks. The system has 12 deck positions on two levels for microplates, tube racks, reservoirs and tips on the smallest footprint. The institute for labor medicine in the Donauespital in Vienna is using this platform to automate sample handling and library preparation for NGS with Ion Torrent™ Sequencing using the HaloPlex Target Enrichment System Kit. The Kit is suited to deep sequencing of small panels of genes, such as those required for studies of inherited disorders, cancer, or infectious diseases.

YOUR BENEFITS

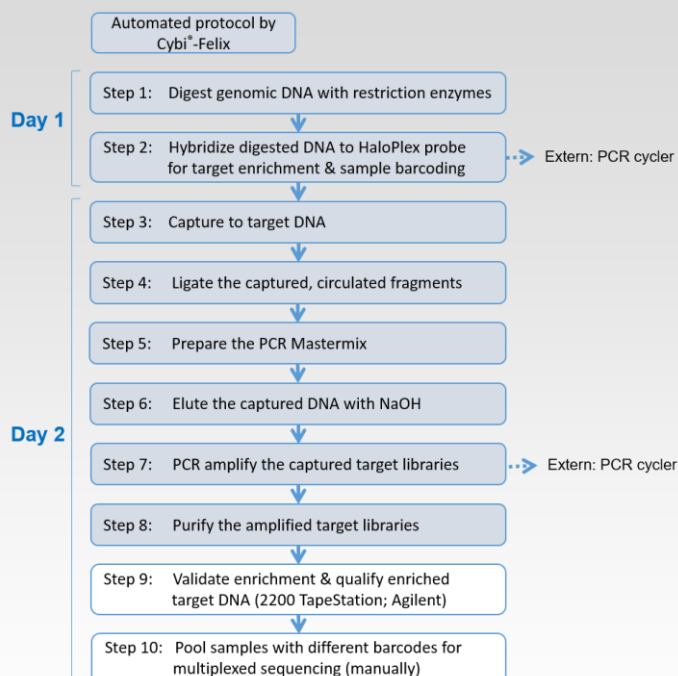
- Automated library preparation for NGS
- Flexible liquid handling platform, easy to adapt your scripts and update protocols
- Save hands-on time
- Reliable and reproducible results
- Provides maximum performance with minimal dimensions
- Workflow adaptable using HaloPlex Target Enrichment System Kit for Illumina Sequencing

APPLICATION

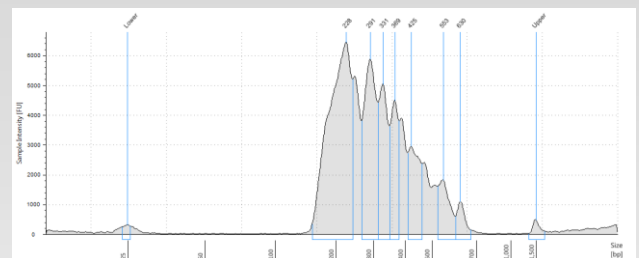
Preparation of DNA libraries for Ion Torrent Sequencing from three different patient samples using the HaloPlex Target Enrichment System Kit for mutation detection.

RESULTS

A. Workflow of Agilent HaloPlex Target Enrichment System using the CyBi®-FeliX



B. Electropherogram of sample 1 using the 2200 TapeStation System (Agilent)



Semi-automated library construction for Ion Torrent sequencing can be successfully performed on the CyBi®-FeliX, using the HaloPlex Target Enrichment System Kit for Ion Torrent™ Sequencing. This liquid handling platform enables rapid processing of 8 samples in parallel.

The modular design provides the end-user with the flexibility to complete library construction over two days, and is suitable for the construction of high-quality libraries from patient samples.

**SAVE HANDS ON-TIME -
USE THE CYBI®-FELIX
FOR NGS LIBRARY
PREPARATION!**

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