

RUO

# Genetron S5 Gene Sequencer

Medium - high throughput sequencing applications

## Product Features

- Simple operation, efficient sequencing – Hands-on operation time is  $\leq 45$  minutes; sequencing can be completed in about 2.5 hours, with a report turnaround time of 2 days
- Flexible throughput – Compatible with five types of sequencing chips, supporting read lengths of 200 bp, 400 bp, and 600 bp.
- Low input requirement – Sequencing libraries can be constructed with as little as 10 ng of nucleic acid input.
- Broad research applications – Suitable for targeted sequencing, whole-exome sequencing, whole-genome sequencing, and other genomic research applications



## Simple Operation, Efficient Sequencing

The Genetron S5 sequencing system provides a streamlined workflow with hands-on operation time under 45 minutes. Ready-to-use modular reagents and an intuitive interface enable instrument setup in about 15 minutes, while RFID tracking allows convenient monitoring of reagent usage.

Based on semiconductor sequencing technology, the system completes sequencing in approximately 2.5 hours and generates high-quality data. When used with one-step library preparation technology and the GENETRON Chef automated loading system, the platform enables an integrated workflow from sample preparation to sequencing data generation within about two days.

## Introduction

The Genetron S5 Gene Sequencer is a high-throughput sequencing platform designed for efficient and flexible sequencing workflows. Combined with Genetron's proprietary one-step library preparation technology and the GENETRON Chef automated loading system, the platform enables an integrated workflow from DNA sample preparation to sequencing data generation within approximately two days.

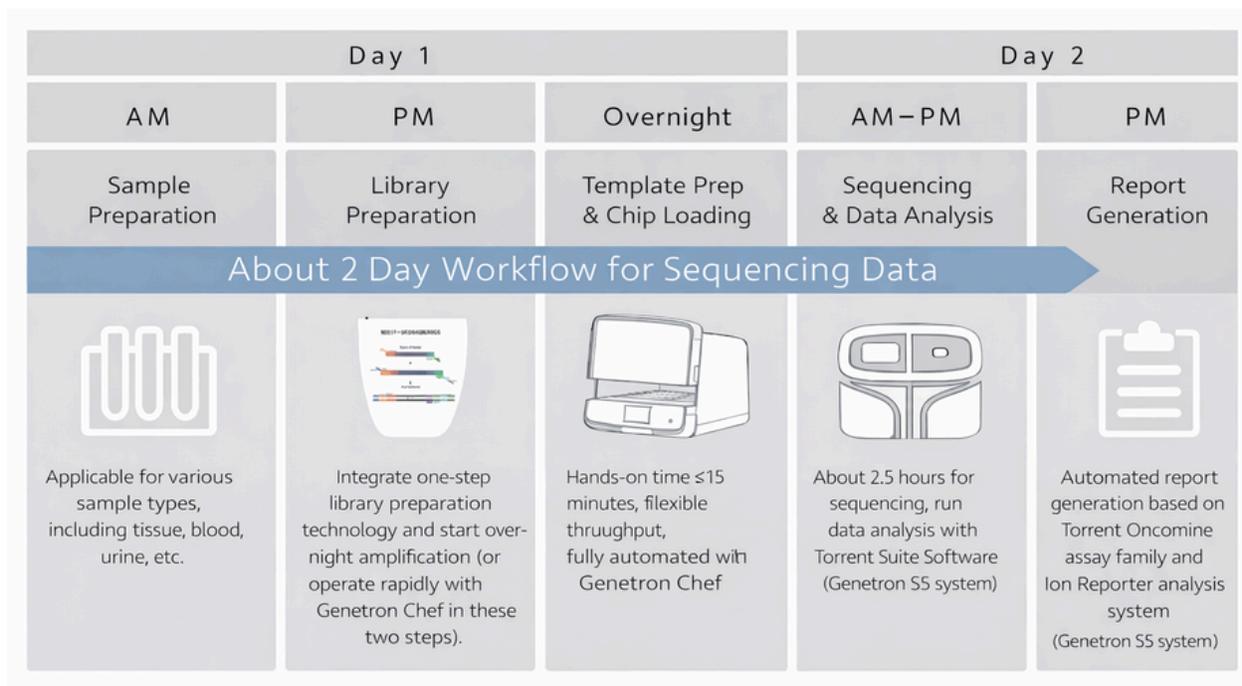


Figure 1. Genetron S5 Sequencing Workflow

## Flexible Throughput

The Genetron S5 sequencing system supports five sequencing chip types, enabling flexible configuration based on project scale and sample throughput requirements.

## Low Input Requirement

The system supports one-step library preparation technology, enabling library construction from as little as 10 ng of DNA or RNA, allowing sequencing analysis of low-input or partially degraded samples. Multiple reagent kits based on this technology are available for use with the GENETRON S5 platform.

For more information, visit <http://www.genetronhealth.com>

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