



MIRO CANVAS

Fully automated NGS sample prep
Walk away with confidence

Fully automated
library prep and target
enrichment hybridization

Flexible
for multiple
NGS platforms

Efficient
less hands-on time
and reagent usage



Hands-free NGS sample prep

Specialized reagent facilitates small volume reactions and processes.



Droplets move within MIRO cartridges to perform all steps for NGS protocols.



Revolutionary microfluidics system with a compact design.



MIRO CANVAS

Next generation sequencing

Next generation sequencing (NGS) has revolutionized the field of genomics, making it possible to sequence entire genomes at a fraction of the cost and time of previous methods. This has led to widespread adoption of NGS and significant advances to our fundamental understanding of biology and human health. Sample and library preparation remain a challenge because they are complex, multi-step processes which are time consuming and error prone. Full automation of NGS protocols can streamline this process and enable laboratories to realize the full potential of NGS.

The MIRO CANVAS NGS prep system

MIRO CANVAS is a compact microfluidics platform that enables true walk-away automation of complex NGS library prep and hybridization protocols, with only minutes of hands-on time. The affordable and easy-to-use system utilizes an innovative cartridge to minimize reagent usage and accommodate multiple sample preparation steps, including protocols for long-read sequencing technologies, target enrichment and on-demand processing of samples.



Fully automated

Simple, walk-away automation for on-demand NGS sample preparation



Efficient

Minimize costs with up to 75 % reduction in reagent use and only 15 minutes of hands-on time



Flexible

Established NGS sample prep protocols for both short-and long-read sequencing platforms

Protocols for multiple NGS platforms

MIRO CANVAS has been optimized to produce high quality results. These include validated protocols for long-read sequencing – such as PacBio sequencing – as well as short-read sequencing applications, including whole genome sequencing (WGS) and target enrichment.



- Full automation for long-read sequencing platforms – reduced reagent usage and a gentle microfluidic environment for long DNA fragments
- Multiplex hybridization capture for target enrichment – full automation of the most critical step for target enrichment
- Fast turnaround, on-demand sample preparation – samples for clinical applications can be processed as received, without the need for batching



Did you know?

MIRO Technology

MIRO CANVAS uses digital microfluidics to move droplets and perform operations using electromechanical forces. All protocol steps, including mixing, thermal cycling and magnetic bead clean-ups are performed in the MIRO cartridge and relevant thermal or magnetic zones on the electrode board of the MIRO CANVAS. The technology fully integrates sample preparation steps to provide walkaway operation.



Simple run set-up

The MIRO CANVAS onboard touchscreen will guide you through setting up the run in minutes. The system senses when a reagent has been loaded and prompts the user to move onto the next step.



True walk-away automation

The system senses reactions during the run, and ensures that all reagents and processes follow the same protocol from day to day, or site to site.

Ordering information

Description	Part no.
MIRO CANVAS NGS prep system	M-01-0001-001-01
MIRO Cartridge, pack of 10 with Dropgloss	M-02-0001-002-02
MIRO Dropgloss (4ml)	M-03-0001-001-01

Technical data	MIRO CANVAS system
Dimensions (WxDxH)	20 cm x 41 cm x 18 cm / 8" x 16" x 7"
Weight	6 kg / 13 lbs
Operating conditions	Temperature: 19-25°C, Humidity: 20-80%, non-condensing, Atmospheric pressure: 78 - 107 kPa
Power requirements	100-240 VAC, 50/60 Hz
Space requirements	Minimum 30 cm W x 45 cm D on a stable surface

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