



QuarkBio strives to become a global leader in providing high quality precision healthcare solutions to our partners through our core technologies by maintaining a strong connection between the latest research findings and the needs of both doctors and patients.

QuarkBio was founded in 2012 on the belief that the one-size-fits-all medical approach is obsolete and that emerging needs of precision healthcare solutions needed to be met in ways that would not be financially burdensome to patients. Taking into account each individual's genetic profile variations, our products provide customers with an extensive spectrum of solutions starting from disease prevention, diagnosis, treatment to prognosis.

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NextAmp™ Analysis System

Enabling Real-Time
Precision Medicine Diagnostics

Simply Possible



PanelChip® and DigiChip™

Patented 1-step sample loading technology, enabling multi-biomarker analysis to be performed with simple operation in clinical settings.



Q Station™

A proprietary thermocycler with precise temperature controls, providing the accurate results necessary for clinical applications.

ENVIRONMENT

NextAmp™ is a dual-functioning system capable of multi-biomarker analysis and digital detection of low quantity genes. The system is supported to assist in biomarker discovery, translation of research results to clinical products and conversion of existing multi-biomarker assays.

Biomarker Discovery

From bespoke chips to utilizing QuarkBio's mirSCAN™ open platform, PanelChip® is an ultra-efficient tool to discover biomarkers of clinical utility with the help of our proprietary database.

Translation of Research Discoveries

Following biomarker discovery, PanelChip® can then be customized and used for clinical purposes, bridging the gap between research and patient use.

Platform Conversion

Existing clinical assays on different platforms can also be easily converted onto PanelChip® or DigiChip™, resulting in a streamlined protocol with a faster turn-around time.

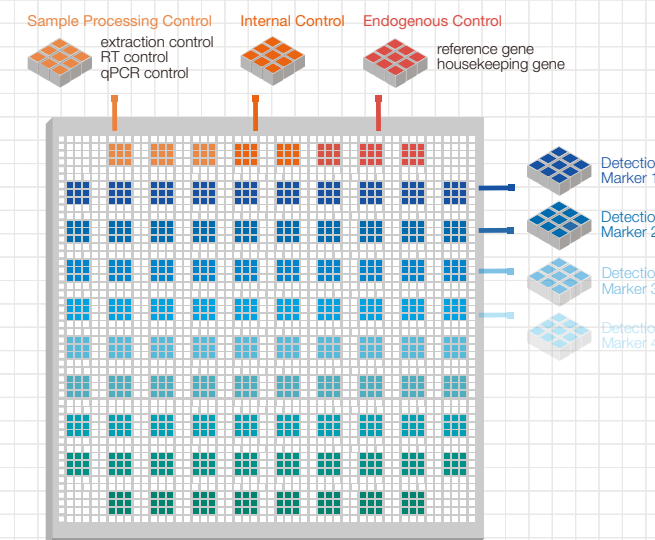
All-in-One Solution

PanelChip® and DigiChip™, along with the support systems, allows for an all-in-one system that provides simple, concise, yet comprehensive solutions in clinical settings.

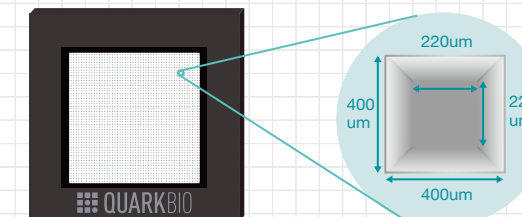
#1 DUAL FUNCTIONALITY #2 Digital qPCR

Multi-Biomarker Analysis

PanelChip® consists of thousands of nanowells, which allows users to analyze multiple biomarkers using amplification reactions. Each customized chip comes pre-loaded with primers/probes of your choosing, eliminating the need to purchase, store and dispense oligonucleotides for your experiments.



DigiChip™, with thousands of nanowells, can be utilized to perform digital qPCR for applications such as accurate quantitation of mutant variants in liquid biopsy. Fluorescent intensity of the sample is precisely measured to determine the absolute concentration of the sample. The final result is reported directly in copy numbers, making data interpretation intuitive and easy.



Utilizing microfluidic principles instead of water-oil emulsion, samples can simply be partitioned into same size and volume into each well.



The bright-light images representing distribution schematics of true positive PCR reactions with serially-diluted templates.

Flexible Throughput

Q Station™ is able to process up to six PanelChip® or DigiChip™ at a time.

Custom Designed

Take control over what biomarkers to use and how to place them on your PanelChip®.

Quick Turnaround

Less than two hours from sample to analyzed data.

Delivered Ready-To-Use

Reagent kits packages alongside PanelChip® and DigiChip™ prepped for immediate use.