

The AVENIO Tumor Tissue CGP Automated Kit

Bring comprehensive genomic profiling into your lab and experience up to 24 hours of uninterrupted walkaway time with automation.



Crucial genomic insights hold the key to cancer research. But the process of uncovering them can be challenging.

Cancer is a disease of the genome¹, which is why comprehensive genomic profiling (CGP), a next generation sequencing (NGS) approach, has become a test of choice in cancer research.² However, the process of performing CGP can be complex, potentially obscuring the path to these crucial insights.

Practical challenges of CGP can hinder the path to discovery



Error-prone manual processes.³



Complexities around both diverse samples of varying quality, quantity and data analysis.³



Bioinformatics expertise required to filter and analyze vast amounts of genomic data.³

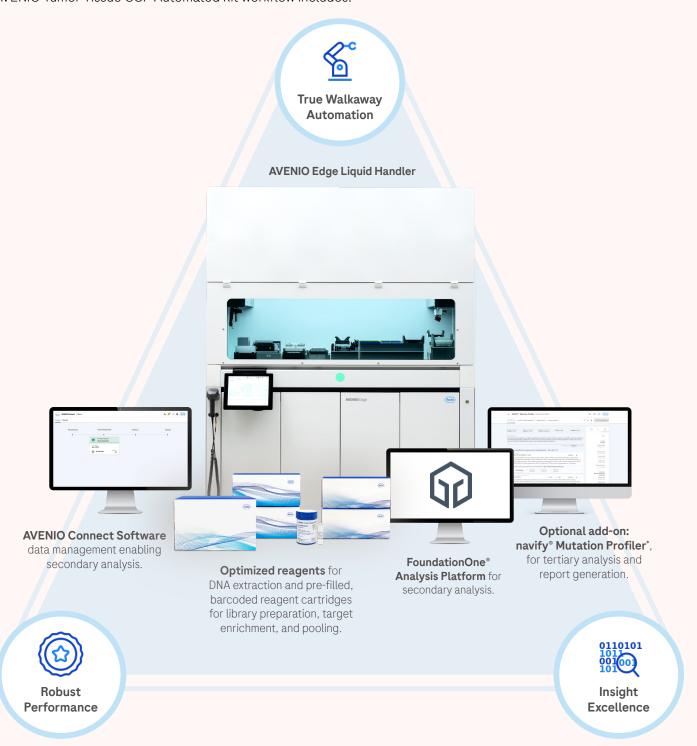


Staff shortages and steep learning curve for skills related to CGP.



The AVENIO Tumor Tissue CGP Automated Kit: Focus on the breakthroughs, not the process.

The AVENIO Tumor Tissue CGP Automated Kit workflow includes:



Leverage a comprehensive solution that enables a simplified and efficient end-to-end CGP workflow.⁴

Experience true walkaway automation and regain time for higher-value tasks.

The AVENIO Edge Liquid Handler is a fully automated system for NGS library preparation, target enrichment, on-deck quantification, normalization, and pooling.⁴

Set up your AVENIO Edge Liquid Handling System run before your shift ends

1



Create an AVENIO Edge System work order file that includes detailed sample information 2



Load the instrument with barcoded samples, reagents and consumables

3



Walk away and return to collect normalized, pooled, sequencing-ready libraries

And leave the system to do the rest



AVENIO Edge Liquid Handling System enables:

Automation-Ready Reagent Cartridges⁷

Pre-filled, barcoded reagent cartridges provide efficiency while also minimizing the risk of error associated with manual pipetting.

— True Walkaway Automation⁴

Streamlined, walk-away automation of library preparation, target enrichment, on-deck normalization and pooling.

→ Pre-Programmed AVENIO CGP Automated Workflow⁴

We handle the programming for the AVENIO Tumor Tissue CGP workflow and other KAPA workflows, so you don't have to.

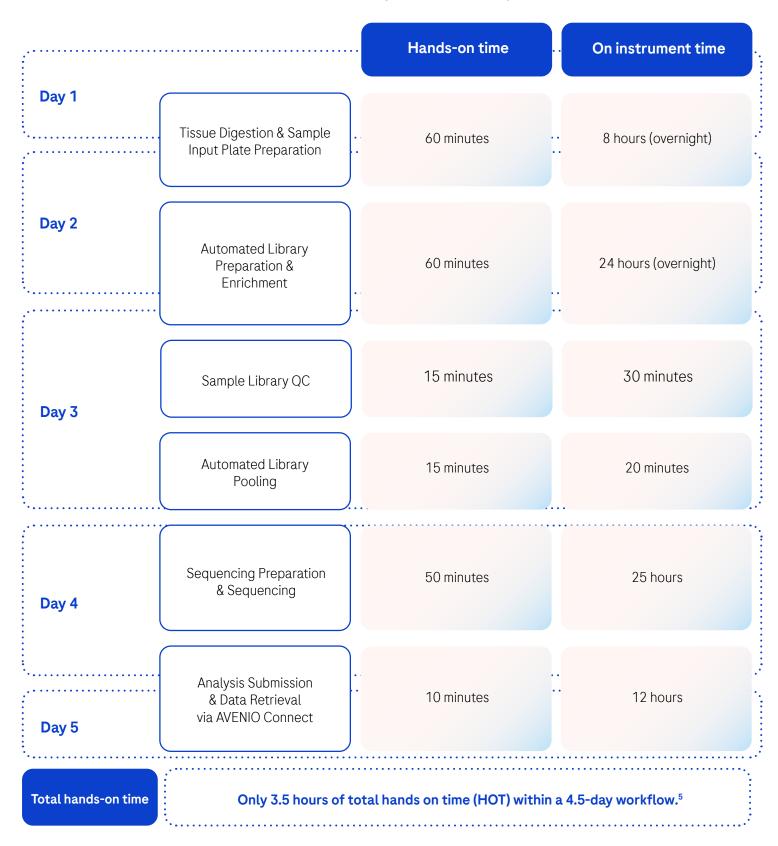
Data Integrity

21 CFR Part 11 compliant; logs and stores user permissions, reagent details, start and stop times, and more in PDF format for traceability.



Make your mark in advancing cancer research with fewer manual touchpoints.*

An end-to-end CGP workflow - from DNA extraction to result generation - with only 3.5 hours of hands-on time.⁵



QC - Quality Check

 $[\]label{thm:continuous} The \, \text{AVENIO Tumor Tissue CGP Kit portfolio is for Research Use Only. Not for use in diagnostic procedures.}$

^{*} When compared to AVENIO Tumor TIssue CGP Kit V2.

Achieve robust performance – even with challenging samples.⁶

Have confidence in every run with a CGP assay that is extensively analytically validated across >5000 FFPE tumor samples.6

Initial Attempt Pass Rate 93.8%⁴

Overall sample pass rate 99.3%4

Increase efficiency and potentially reduce the need for retesting so you can save time and resources without compromising the quality of your results.

DNA extraction from FFPE tissue, delivering high quality DNA and yields.⁶

Perform comprehensive genomic analysis that potentially expands the range of samples suitable for analysis and improves overall performance.

High sequencing performance metrics with an average median coverage of 2,000x⁶

Enhance data accuracy and reliability, and drive confident results with high sequencing metrics.

High analytical sensitivity⁶
MAF* LoD** of 1.0-3.1% for key short variants⁴

High analytical specificity⁶ >99.99% for genomic alterations and signatures⁴

Achieve reliable results with robust sensitivity and specificity that reduces the likelihood of false negatives.

Consistent precision with proven lot-to-lot reproducibility⁶

Reduce variability and increase confidence in your data across multiple experiments.

Deliver insight excellence and generate clear, meaningful genomic insights with ease.

Bring the power of two leaders in oncology, Roche and Foundation Medicine, into your lab. 7,8

Designed to be comprehensive



- Provides genomic information such as Single Nucleotide Variants (SNVs), Insertions and Deletions (InDels), Copy Number Alterations (CNAs) and DNA-based gene fusions along with genomic signatures such as Tumor Mutational Burden (TMB), Microsatellite Instability (MSI), genomic Loss of Heterozygosity (gLOH), in addition to Homologous Recombination Deficiency Signature (HRDsig).⁷
- Uses a 335-gene panel that is aligned with the FoundationOne® CDx panel design.4
- Enable DNA-based rearrangement/fusion detection with Foundation Medicine's baitset design.^{4,9}



Designed to elevate the value of your data

 Uncover new insights with a pan-cancer HRD signature that is aligned with the HRD biomarker, developed and analytically validated in the FoundationOne® CDx assay using real-world data and machine learning from Foundation Medicine's knowledgebase.⁴



 Access to the most critical, up-to-date, evidence-based information with navify® Mutation Profiler* as an add-on.¹⁰



Designed to keep you future-ready



- Harness the power of FoundationOne® Analysis Platform, a secondary analysis platform with continuously expanding insights, consistent accuracy, and efficient cloud-based computing.⁴
- AVENIO Connect Software, a cloud-based solution, providing a streamlined interface to the secondary analysis software ensuring seamless data management.¹¹

The AVENIO Tumor Tissue CGP Automated Kit: Powerful, precise, and proven with >5000 samples⁶

AVENIO Tumor Tissue CGP Automated Kit enables your lab to adopt CGP and overcome important hurdles that could hinder discoveries. With the expertise and proven technology of Roche and Foundation Medicine, you can perform CGP with efficiency and renewed confidence.



True Walkaway **Automation**

Experience up to 24 hours of uninterrupted walkaway time and dedicate more attention to higher value tasks.4

> Only 3.5 hrs of handson time for the end-toend workflow^{4,5}



Robust **Performance**

Overcome sample complexity and have confidence in the quality of your results.4

Overall sample pass rate of 99.3%4



Insight **Excellence**

Access insights and translate your data into actionable information of research value.5,7

Growing knowledge and technology of Roche and Foundation Medicine, two leaders in oncology^{7,8}

Cancer is a complex disease. Keep the path to discovery simple with the AVENIO Tumor Tissue CGP Automated Kit.

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