

Rapid genomic profiling across multiple tumor types

The OncoPrint Comprehensive Assay v3 on the Genexus System

Are you faced with analyzing and reporting an ever-increasing number of biomarkers for multiple tumor types? Do you need results fast, but lack the resources for additional manual and expert work?

Running the Ion Torrent™ OncoPrint™ Comprehensive Assay v3 on the Ion Torrent™ Genexus™ System will enable you to:

- **Rapidly analyze relevant SNVs, indels, CNVs, and gene fusions from 161 genes.** This allows you to report relevant biomarkers for key cancer types, including breast, colorectal, lung, ovarian, prostate, and others, as soon as the next day and integrate them with immunohistochemistry results.
- **Save your technicians' time** with a highly automated workflow, offering as little as 20 minutes of hands-on time.
- **Reduce the complexity and cost of implementation and maintenance** by utilizing a true end-to-end solution from sample to report without the need for additional bioinformatics expertise.
- **Generate data from 20 ng of DNA and 20 ng of RNA**, enabling you to obtain results from small and low-quality FFPE samples like non-small cell lung cancer (NSCLC) and prostate cancer samples.

Relevant biomarkers in precision oncology research across multiple tumors

The OncoPrint Comprehensive Assay v3 covers the majority of solid tumor–relevant biomarkers for precision oncology research. This includes SNVs, indels, CNVs, and gene fusions from 161 genes, encompassing cancer drivers and tumor suppressors. A subset of genes included in the panel is shown in Figure 1.

As DNA damage repair genes are becoming particularly relevant in multiple cancers, including breast, ovarian, prostate, and pancreatic cancers, the OncoPrint Comprehensive Assay v3 includes genes in the homologous recombination repair (HRR) pathway, including *ATM*, *BRCA1*, *BRCA2*, *CDK12*, *CHEK1*, *CHEK2*, *PALB2*, *RAD51B*, *RAD51C*, and *RAD51D*, among others.

A true end-to-end solution

With automated nucleic acid extraction and quantification, library preparation, sequencing, analysis, and reporting requiring as little as 20 minutes of hands-on time, running the OncoPrint Comprehensive Assay v3 on the Genexus System reduces laboratory staff burden and the potential for human error. It also alleviates the need for specialized bioinformatics expertise. Additionally, the assay is available for use on the Ion GeneStudio™ S5 System with manual or automated library preparation.

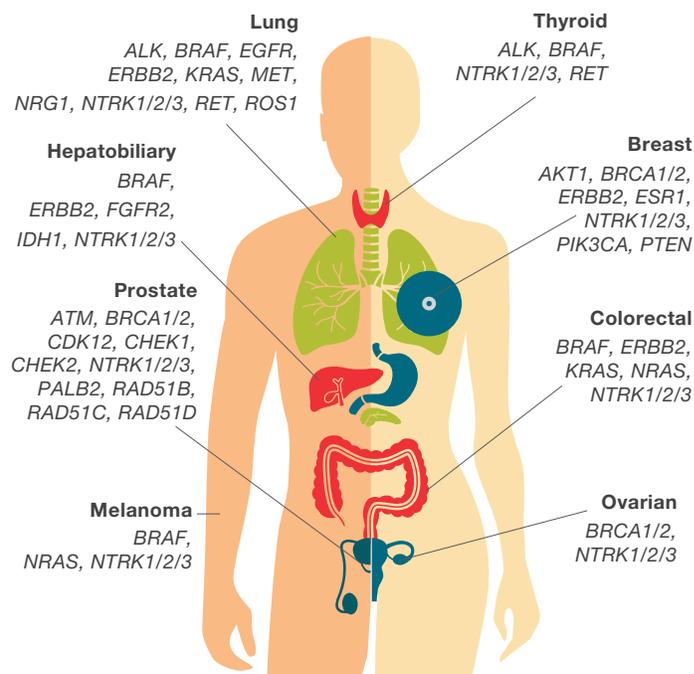
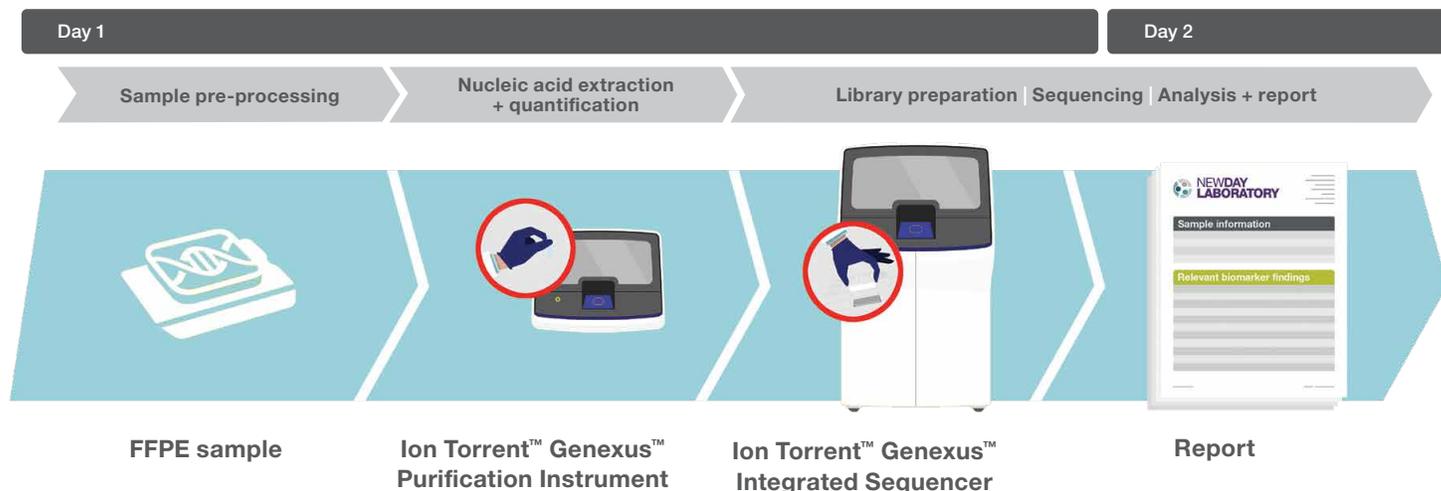


Figure 1. Subset of genes covered by the OncoPrint Comprehensive Assay v3.



Ordering information

Product	No. of reactions	Cat. No.
For the Genexus System		
OncoPrint Comprehensive Assay v3 GX	16 (DNA, RNA)	A46296

Product	No. of reactions	Cat. No.
For the Ion GeneStudio S5 System		
OncoPrint Comprehensive Assay v3C	32 (DNA, RNA)	A35806
OncoPrint Comprehensive Assay v3M	24 (DNA, RNA)	A35805
	96 (DNA, RNA)	A36111

For DNA- and RNA-only options, please contact your sales representative.

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