

Oncomine Focus Assay



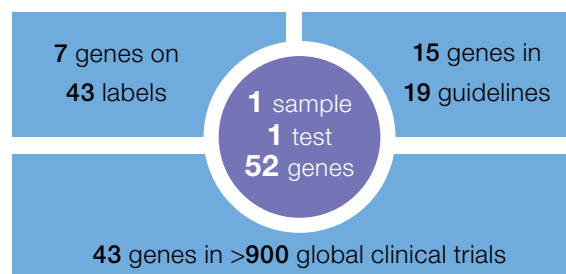
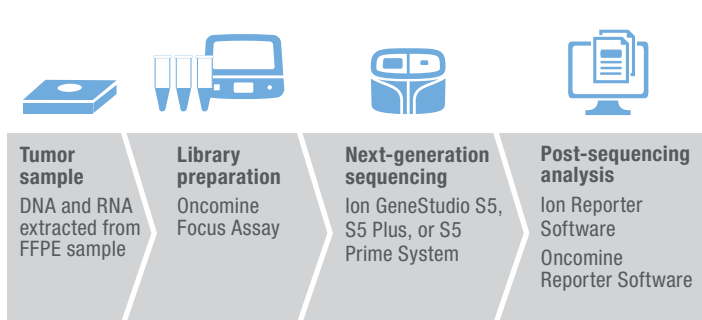
Chef-ready assay now available—for automated, hands-free library preparation and templating

The Ion Torrent™ Oncomine™ Focus Assay is a multibiomarker next-generation sequencing (NGS) assay that enables detection of variants in 52 genes relevant to solid tumors. This assay allows concurrent analysis of DNA and RNA to simultaneously detect multiple types of variants, including hotspots, single-nucleotide variants (SNVs), indels, copy number variants (CNVs), and gene fusions, in a single workflow (Figure 1).

Designed for use with the Ion GeneStudio™ S5 systems, the Oncomine Focus Assay leverages the uniquely low sample-input requirements of Ion AmpliSeq™ technology, enabling highly accurate and reproducible sequence analysis of formalin-fixed, paraffin-embedded (FFPE) samples.

The Oncomine Focus Assay offers:

- Analysis of over 1,000 biomarkers across 52 genes
- Detection of relevant hotspots, SNVs, indels, CNVs, and gene fusions using a single workflow for DNA and RNA
- Results from even small samples, such as fine-needle aspirates or as few as 2–3 FFPE slides
- Fast turnaround times and throughput—3 days from sample to answer; 6 samples and 2 controls per run (Ion 520™ Chip) with library preparation and templating on the Ion Chef™ Instrument
- Reagents and consumables manufactured under enhanced QC in our ISO 13485–certified facility



Oncomine Focus Assay gene-level target annotation by Oncomine Reporter Software v4.1, December 2018 release.

Figure 1. Single workflow for DNA and RNA provides streamlined analysis of 52 genes. Library preparation is performed with the Oncomine Focus Assay using nucleic acids extracted from FFPE samples. NGS is subsequently performed. Ion Reporter™ Software helps users identify and prioritize variants, while Ion Torrent™ Oncomine™ Reporter Software helps guide important decisions in cancer research by linking driver variants with relevant labels, guidelines, and global clinical trials.

Efficient single workflow for analysis of multiple variant types

The OncoPrint Focus Assay enables highly multiplexed analysis of both DNA and RNA in a single workflow to detect hotspots, SNVs, indels, CNVs, and gene fusions across 52 genes (Figure 2). This easy-to-use, streamlined workflow helps reduce the complexity inherent in performing sequential assays using a range of different products and technologies. Designed to analyze various target types, genes, and sample input types in a single run, the OncoPrint Focus Assay can help shorten time-to-results and help reduce your risk of sample consumption prior to obtaining a meaningful result.

Intelligent NGS assay design

The biomarkers included in the OncoPrint Focus Assay were selected based on information in the OncoPrint Knowledgebase and confirmed with industry-leading pharmaceutical partners. The OncoPrint Knowledgebase is one of the world's largest collections of curated oncology data, long trusted by pharmaceutical companies, contract research organizations (CROs), and translational laboratories around the world.

Optimized for even challenging FFPE samples

Based on Ion AmpliSeq technology, the OncoPrint Focus Assay requires only 2–3 FFPE slides or as little as 10 ng of input DNA or RNA per reaction. This enables analysis of even small and inferior-quality samples, such as fine-needle aspirates. Alternative methods require numerous FFPE slides and hundreds of nanograms of DNA or RNA, making them less practical for routine analysis of FFPE tumor samples.

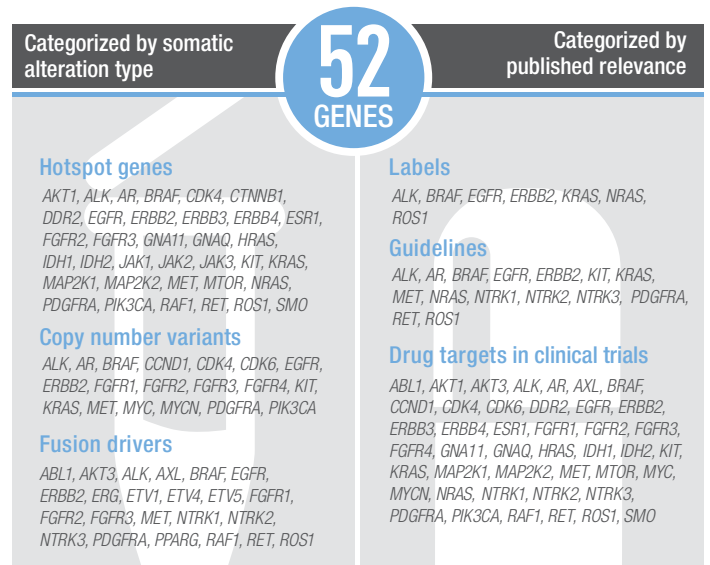


Figure 2. Genes covered in the OncoPrint Focus Assay for clinical research and future molecular diagnostic development.

Different configurations to meet the needs of any laboratory

The OncoPrint Focus Assay is available in:

1. An Ion Chef Instrument–ready assay kit that enables automated library preparation and templating on the Ion Chef Instrument, reducing potential human error and hands-on time.
2. Manual library assay kits that are available in two sizes to accommodate varying sample throughput.

Ordering information

Product	Cat. No.
Flexible solutions	
OncoPrint Focus Assay, Chef-Ready Library, 32 tests	A42008
OncoPrint Focus Assay, Ion AmpliSeq Library, 48 tests	A29230
OncoPrint Focus Assay, Ion AmpliSeq Library, 16 tests	A35957

For more information, contact your sales representative or go to [thermofisher.com/oncoPrint](https://www.thermofisher.com/oncoPrint)