Oncomine Comprehensive Assay v3
Empower your oncology research with proven Ion Torrent technology

The Ion Torrent™ Oncomine™ Comprehensive Assay v3 is a member of the family of Ion Torrent™ Oncomine™ assays for clinical cancer research. Oncomine assays are multiple-biomarker assays based on next-generation sequencing (NGS). They have been adopted by leading cancer institutions around the world, have been used to profile thousands of samples in different translational and clinical research projects, and have consistently delivered reliable results.

Oncomine Comprehensive Assay v3

- Content is based on the latest advances in clinical oncology research and also enriched for targets known to be associated with (or drive) childhood cancers
- Based on robust Ion AmpliSeq™ technology, this assay only requires 10 ng of DNA or RNA per pool, enabling analysis of even small and challenging formalin-fixed, paraffin-embedded (FFPE) samples
- Detects relevant SNVs, CNVs, gene fusions, and indels from 161 unique cancer driver genes in one streamlined workflow
- Optimized and verified for the Ion Chef™ Instrument and Ion GeneStudio™ S5 Systems with the Ion 540™ Chip, or the new Ion Torrent™ Genexus™ System with the Ion Torrent™ GX5™ Chip, both enabling full automation including automated library prep

“The requirement of a lower DNA input for the Oncomine assay is a significant advantage when primary samples are becoming increasingly limited.”

John Bartlett, PhD
Director of Transformative Pathology Platform
Ontario Institute for Cancer Research
Find out more at thermofisher.com/ocav3

List of gene targets in the Oncomine Comprehensive Assay v3.

Intelligent NGS assay design
The content covers 161 of the most relevant cancer driver genes, including increased kinase domain coverage and representation of genes involved in DNA repair.

Optimized for challenging FFPE samples
Based on Ion AmpliSeq technology, the Oncomine Comprehensive Assay v3 typically requires three or fewer FFPE slides or as little as 10 ng of input DNA or RNA per reaction. This enables analysis of 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.

Oncomine informatics
The Oncomine NGS oncology assay workflow provides a complete solution for NGS data analysis to go from hundreds of variants to a few relevant cancer drivers.

The Oncomine informatics workflow enables you to get high-quality data, prioritizes and annotates driver variants, and comes complete with software that links relevant biomarkers to information available from labels, guidelines, and clinical studies for clinical/translational research support.

Different configurations to meet the needs of any laboratory
The Oncomine Comprehensive Assay v3 has been optimized for throughput of eight samples on the Ion GeneStudio S5 Systems or six samples on the Genexus System. The assay is available in two configurations for use on the Ion GeneStudio S5 Systems: manual and automated library preparation (on the Ion Chef Instrument). The Genexus System combines prep, templating, and sequencing all in one system, with two user touchpoints and a single-day turnaround time.*

Ordering information

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* Specimen-to-report workflow will be available after the Ion Torrent™ Genexus™ Purification System and integrated reporting capabilities are added in 2020.

Find out more at thermofisher.com/ocav3

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