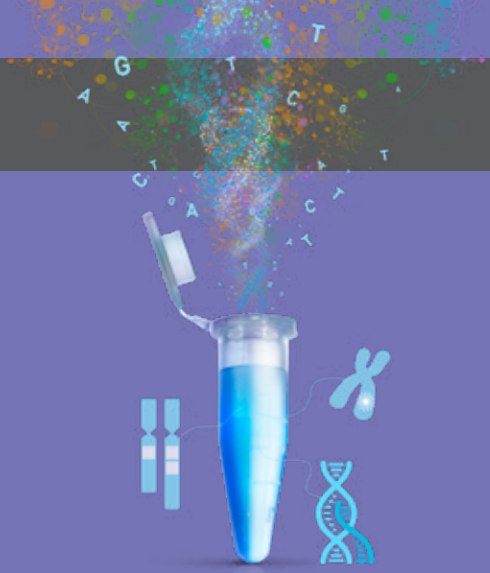


Ion AmpliSeq community panels

Predesigned and fully customizable



Employing signature Ion AmpliSeq technology to amplify multiple distinct targets in a single reaction

Ion AmpliSeq™ community panels are helping transform research for cancer, inherited diseases, microbiology, and infectious diseases by enabling you to selectively analyze genetic content. The community-wide availability of our panels can greatly simplify your disease research, and help you get up and running quickly and conveniently.

Choose from our comprehensive selection of panels:

- Designed with input from leading researchers of disease
- Verified for performance
- Maximum flexibility—order a panel as is, or customize gene targets or regions of interest to suite your project requirements

Find out more about Ion AmpliSeq community panels at thermofisher.com/ampliseqcommunity or order now at ampliseq.com

Ion AmpliSeq panels for focused next-generation sequencing (NGS)

- Simple, scalable, and fast targeted NGS workflow for gene target and hotspot detection
- Comprehensive solutions for multiple applications all in one NGS system—cancer, microbial, comprehensive disease research, and more
- Automated workflow with minimal hands-on time

Discover the power of our focused NGS solutions at thermofisher.com/sharpenyourfocus

New Ion AmpliSeq community panels for cancer research

Ion AmpliSeq™ Microsatellite Instability Research Panel

- Accurately call microsatellite instability (MSI) in homopolymer and repetitive regions across cancer types
- Study 76 MSI markers in a single-pool assay
- Multiplex up to 40 samples on a single Ion 530™ Chip

Ion AmpliSeq™ Methylation Panel for Cancer Research

- Complete targeted NGS workflow
- Includes 38 markers associated with colon cancer, prostate cancer, leukemia, and lymphoma in a single-pool assay
- Multiplex up to 16 samples on a single Ion 530 Chip

Featured community panels

Ion AmpliSeq™ Acute Myeloid Leukemia (AML) Panel

- Analyze the coding regions of known mutations in 21 commonly mutated genes involved in AML
- Designed with leading researchers at the University of Michigan Molecular Diagnostics Laboratory

Ion AmpliSeq™ Antimicrobial Resistance Research Panel

- Allows microbial identification and antimicrobial resistance analysis with no culture
- Interrogates 478 antimicrobial resistant genes

Ion AmpliSeq™ BRCA1 and BRCA2 Panel

- Analyzes the coding regions of the genes that have been implicated in hereditary breast and ovarian cancer
- Requires only 30 ng of starting DNA input
- Designed with and verified by leading researchers at the University of Porto
- Verified using 50 samples previously tested with orthogonal platforms (found 100% concordance)

Ion AmpliSeq™ Cardiovascular Research Panel

- Analyzes 62 genes implicated in cardiomyopathies, channelopathies, arrhythmias, and heart defects

Ion AmpliSeq™ CFTR Panel

- Analyzes common mutations in the cystic fibrosis transmembrane regulator (*CFTR*) gene

Ion AmpliSeq™ Colon and Lung Cancer Research Panel

- Analyzes hotspots and targeted regions in 22 genes, covering over 500 mutations
- Designed with a consortium of 8 leading research groups, and verified using 155 different FFPE samples

Ion AmpliSeq™ Pan-Bacterial Research Panel

- Detects bacterial organisms at genus and species levels
- Identifies genes against 31 different antibiotic classes

Ion AmpliSeq™ TP53 Panel

- Analyzes exons and untranslated regions (UTRs) of the gene that encodes tumor suppressor protein p53 (TP53)—one of the most studied genes in human cancer research
- Designed with leading researchers at the Norwegian Radium Hospital, Institute for Cancer Research

Ion AmpliSeq™ custom RNA panels

- Predesigned with curated content for targeted gene expression analysis, including pathway analysis, oncology research, stem cell research, inflammation response research, and noncoding RNA research

Browse the complete list of Ion AmpliSeq community panels at thermofisher.com/ampliseqcommunity

Order now or customize your panels at ampliseq.com