Ion AmpliSeq[™] Community Panels

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Designed with leading researchers

Leveraging the power of the Ion Community and Ion AmpliSeq[™] technology, Life Technologies delivers Ion AmpliSeq[™] Community Panels

Ion AmpliSeq[™] Community Panels provide the ability to selectively analyze gene content with the aim of transforming cancer and inherited disease research. Your disease research is greatly simplified with the communitywide availability of these panels. In addition, for maximum flexibility you will be able to rapidly customize any Ion AmpliSeq[™] Community Panel to advance clinical research to fit your own project requirements.

Ion AmpliSeq[™] Community Panels, designed with input from leading disease researchers and verified for performance, are available for any lab to order via **ampliseq.com.**



Choose from our selection of panel designs

Design and verification with input from leading researchers using Ion AmpliSeq[™] technology



Customize community panel design

Panel designs are customizable, to meet your specific research needs



Contribute to the community

Join the Ion Community to learn more or to contribute new community panels

Panels available now:

- Ion AmpliSeq[™] BRCA1 and BRCA2 Panel
- Ion AmpliSeq[™] Colon and Lung Cancer Panel

Panels available soon:

- Ion AmpliSeq[™] AML Panel
- Ion AmpliSeq[™] CFTR Panel
- Ion AmpliSeq[™] Cardio Panel
- Ion AmpliSeq[™] *TP53* Panel

Ion AmpliSeq[™] technology

- As low as 10 ng of input DNA, enabling routine FFPE analysis
- Rapid results, with 3.5-hour library construction
- Flexibility and cost-effectiveness, with different chips to match throughput needs

For a complete listing of all Ion AmpliSeq[™] DNA and RNA Panels, go to: **lifetechnologies.com/ampliseq**



Learn more at lifetechnologies.com/ampliseqcommunity

Panels available now:

Ion AmpliSeq[™] BRCA1 and BRCA2 Panel

- Analyzes the coding regions of *BRCA1* and *BRCA2* genes. Mutations in tumor suppressor genes *BRCA1* and *BRCA2* have been implicated in hereditary breast and ovarian cancer.
- Requires only 30 ng of starting DNA input.
- Designed with Drs. Marjolijn Ligtenberg and Arjen Mensenkamp from Radboud University Nijmegen Medical Centre, The Netherlands; and Drs. José Carlos Machado and José Luis Costa from The Institute of Molecular Pathology and Immunology of the University of Porto.
- Verified by these two groups using 50 samples previously tested with orthogonal platforms and found 100% concordance.

Ion AmpliSeq[™] Colon and Lung Cancer Panel

- Analyzes hotspots and targeted regions in 22 genes with coverage of over 500 mutations implicated in colon and lung cancer. The gene content of this panel is designed with a consortium of eight leading research groups (the OncoNetwork Consortium) and has been verified using 155 different FFPE samples.
- Requires only 10 ng of starting DNA input.
- OncoNetwork Consortium members include Drs: Aldo Scarpa,¹ Ludovic Lacroix,² Marjolijn Ligtenberg,³ Bastiaan Tops,³ Christoph Noppen,⁴ Henriette Kurth,⁴ Nicola Normanno,⁵ Pierre Laurent Puig,⁶ Ian Cree,⁷ and Orla Sheils.⁸

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³Radboud University Nijmegen Medical Centre, The Netherlands
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⁵Centro Ricerche Oncologiche Mercogliano, Italy
⁶Université Paris Descartes, Paris, France
⁷Warwick University Medical School, United Kingdom

⁸Trinity College Dublin, Ireland

Panels available soon:

Ion AmpliSeq[™] AML Panel^{*}

- Analyzes the coding regions of known mutations in 21 commonly mutated genes involved in acute myeloid leukemia (AML).
- Design is currently in progress with input from Drs. Kojo Elenitoba-Johnson and Bryan Betz from the Molecular Diagnostics Laboratory at the University of Michigan, Department of Pathology.

Ion AmpliSeq[™] CFTR Panel^{*}

• Analyzes exons, intron-exon boundaries, and UTRs that contain common mutations in the cystic fibrosis transmembrane regulator (*CFTR*) gene. Mutations of this gene are associated with cystic fibrosis.

Ion AmpliSeq[™] Cardio Panel^{*}

• Analyzes exons and UTRs of 62 genes commonly implicated in cardiomyopathies, channelopathies/ arrhythmias, and structural heart defects.

Ion AmpliSeq[™] TP53 Panel*

- Analyzes exons and UTRs of the *TP53* gene. This gene encodes tumor suppressor protein p53 and is one of the most studied genes in human cancer research.
- Design is currently in progress with Dr. Anne-Lise Børresen-Dale and her lab at the Norwegian Radium Hospital, Institute for Cancer Research.

Learn more at lifetechnologies.com/ampliseqcommunity

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