

Agilent SureSelect CD HRR17 Panel

Designs by experts, available to the community

Supported by Agilent's integrated workflow solutions

- Features a 17-gene panel, total footprint 114.3 Kb, specifically selected to identify BRCA and HRR gene mutations and used with SeqOne HRD analysis
- Suitable with SureSelect XT HS or XT HS2 library preparation, including automation options for high throughput and a fully walkaway capture workflow
- Compatible with Illumina chemistry for 32 libraries per NextSeq run (two x 150 bp mid-output) or ten libraries per run for HRR panel and LP-WGS, delivering a complete SeqOne HRD solution

Targeted next-generation sequencing for HRD analysis

Agilent Community Designs (ACD) for next-generation sequencing (NGS) are targeted sequencing panels established in collaboration with subject matter experts in various research fields. These NGS designs are available as custom, made-to-order panels that provide you with robust and cost-effective sequencing results focusing only on your genes of interest.



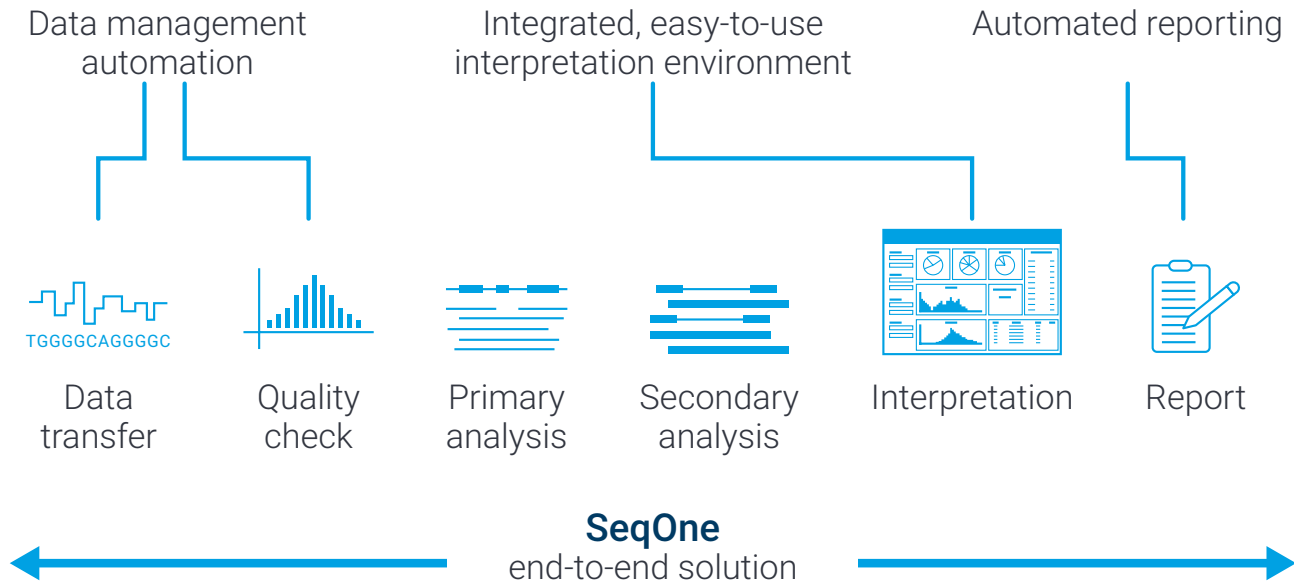
Agilent is collaborating with SeqOne Genomics to deliver an analysis platform for the Agilent SureSelect CD HRR17 panel, enabling an accurate, streamlined, fully validated homologous recombination deficiency (HRD) workflow solution.

HRD is a key biomarker to identify ovarian cancer patients likely to respond to PARP inhibitor (PARPi) therapy. It can now be offered by any genetic lab routinely performing targeted capture, enabling labs to expand testing portfolios and bring tests closer to patients for improved sample efficiency and turnaround times.

The SureSelect HRR17 gene panel has been developed to cover 17 genes associated with HRR or other genes of interest. Importantly, this panel can be combined with low-pass whole-genome sequencing (LP-WGS) and the analysis solution from SeqOne to provide a fully validated HRD workflow.

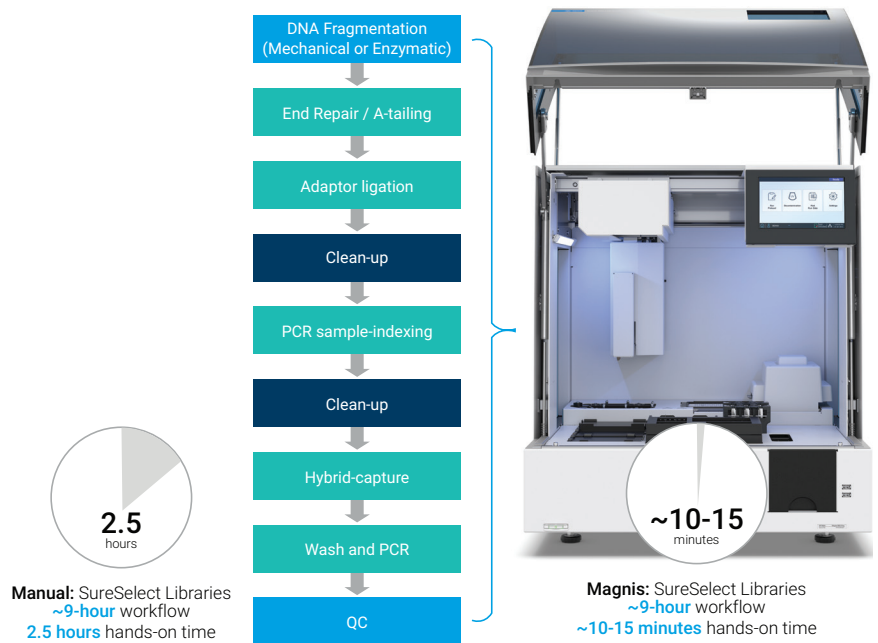
Implementing machine-learning-powered software with SeqOne Genomics

SeqOne Genomics develops machine-learning-powered software for genomic analysis that is easy to deploy, efficient to operate, and delivers accurate results in both somatic and germline contexts.



Leveraging the simplicity of complete automation

The SureSelect HRR17 panel has been automated on the Agilent Magnis NGS prep system for walkaway preparation of ready-to-sequence libraries. The SureSelect HRR17 panel was developed using the streamlined and high-performance SureSelect XT HS2 library preparation and target enrichment chemistry.



SeqOne workflow for maximum efficiency and compliance

Building on the new Agilent CD HRR17 gene panel, SeqOne Genomics has developed a clinically validated HRD solution, designed for efficient development in labs that want to deliver HRD tests in-house. The workflow combines a targeted capture panel and LP-WGS that is flexible enough to accommodate a wide range of patient volumes and lab configurations. The solution delivers excellent performance, even with samples of low cellularity, and reduces the rate of inconclusive results.

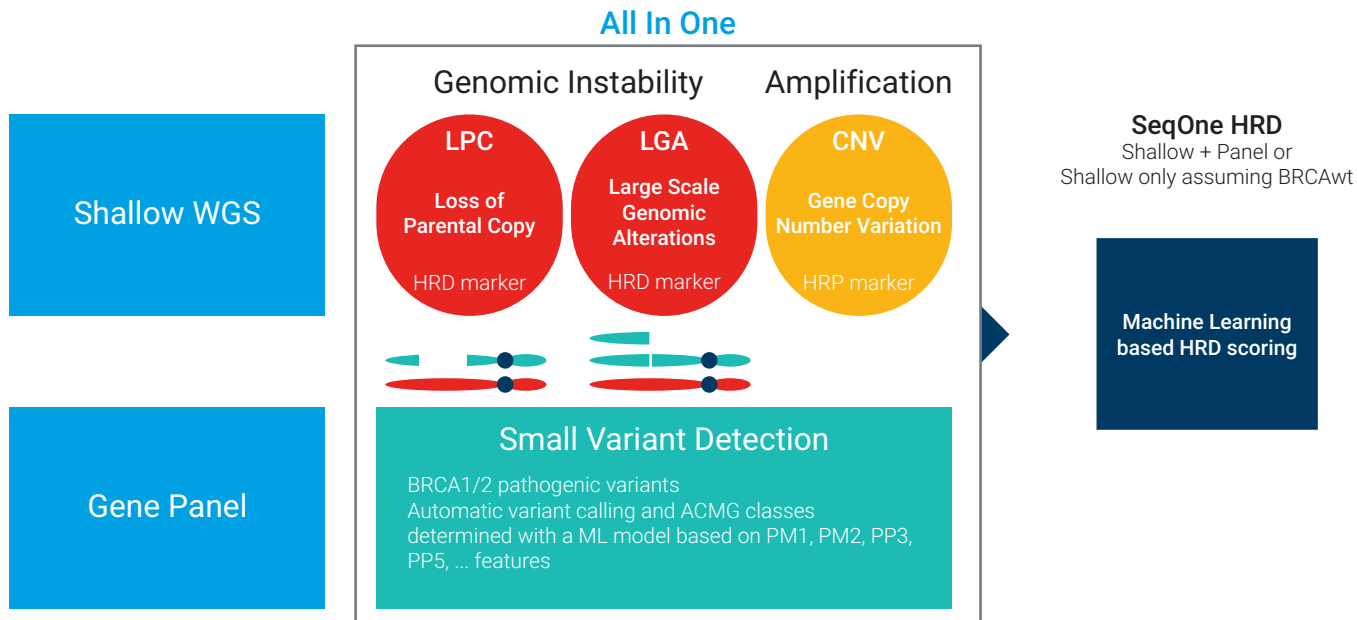


Table 1. Genes covered by the Agilent SureSelect CD HRR17 genes.

Gene	Reason for Inclusion	Gene	Reason for Inclusion	Gene	Reason for Inclusion
BRCA1	BRCA status	RAD51C	Known HRR related gene	FANCA	Other gene of interest
BRCA2		RAD51D		FANCL	
BRIP1	Known HRR related gene	ARID1A	Other gene of interest	NBN	
CHEK1		ATM		PIK3CA	
CHEK2		BRAF		TP53	
PALB2		CDK15		MSI Sites	To assay microsatellite instability

Table 2. Ordering information for Agilent SureSelect Community Design HRR17.

Note: the 16, 96x and 96A part numbers cover the capture probe libraries only. Library preparation and target enrichment kits must be purchased separately. Magnis kits include library prep and enrichment reagents.

Product Name	Part Number
Agilent SureSelect CD HRR17, 16	5282-0086
Agilent SureSelect CD HRR17, 96	5282-0087
Agilent SureSelect CD HRR17, 96 Auto	5282-0088
Agilent Magnis SureSelect CD HRR17, ILM, 32	G9723A
Agilent Magnis SureSelect CD HRR17, ILM, 96	G9723B

Disclaimer: Agilent has not performed verification and validation on these panels.

Reference: [HRD testing made easy, accurate and cost-effective with SeqOne](#)

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This information is subject to change without notice.

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