Archer™ VARIANT*Plex*™ Panels for Hereditary Cancer Research



BRCA v3 | BRCA + PALB2 v2 | Hereditary Cancer

Archer VARIANT*Plex* research panels provide solutions for the detection of single nucleotide variants, indels, copy number variations, and intragenic structural variants associated with hereditary cancers.

Solutions for **BRCA v3, BRCA + PALB2**, and a **55-gene hereditary cancer panel** are compatible with nucleic acids isolated from whole blood, saliva, and FFPE research samples.

Detect with confidence

A unique outlier detection algorithm uses position-specific data to enable confident variant identification.

Customize panel content

Use Assay Marketplace to add functionally tested designs to any of these panels, or build a panel specific to your research goals.

Maximize lab efficiency

Select from lyophilized or liquid reagents, utilize a consistent workflow across panels, and reduce hands-on time to under 2.5 hours.

Scale operations easily

Rely on consistent AMP™ chemistry performance as panels grow and automate the workflow with liquid reagents.

Expand your research without disrupting your laboratory processes

All Archer VARIANT*Plex* panels follow the same library preparation workflow regardless of panel size, so you can easily integrate more targets into your research without adding operational complexity.



Select any panel

Choose from BRCA v3, BRCA + PALB2 v2, or the 55-gene Hereditary Cancer panel.

Extract nucleic acids

Use your validated method for whole blood, saliva, or FFPE research samples.

Prepare libraries

Keep the same workflow across all three panels and generate sequence-ready libraries in 1.5 days.

Sequence

Sequence libraries on any Illumina® sequencing platform.

Analyze

Archer™ Analysis covers quality control, variant review, and reporting.

Purpose-built for robust variant detection

AMP chemistry and Archer Analysis were co-developed to ensure accurate variant detection and interpretation.

One platform across the portfolio

AMP chemistry paired with Archer Analysis software supports multiplex detection of complex variants across panels.

Error correction at the molecule

Molecular Barcode Adapters tag every molecule enabling efficient sample tracking, multiplexing, and error correction.

Deployed to suit your lab

Archer Analysis Unlimited is a cloud-based, scalable option for labs that prefer managed infrastructure. Request the white paper to review it in detail.

RUO For Research Use Only. Not for use in diagnostic procedures.

IDT™ INTEGRATED DNA TECHNOLOGIES

A flexible platform that supports every stage of your research

Archer VARIANTPlex hereditary cancer research panels

	BRCA v3	BRCA + PALB2 v2	Hereditary Cancer
Targeted genes	**2** BRCA1, BRCA2	**3** BRCA1, BRCA2, PALB2	**55** BRCA1, BRCA2, PALB2 + 52 additional genes
Genomic alterations	SNVs, indels, intragenic CNVs	SNVs, indels, intragenic CNVs	SNVs, indels, CNVs, intragenic structural variants
Research focus	Focused BRCA1/2 hereditary cancer research		Breast, colorectal, endometrial, melanoma, gastric, pancreatic, and other inherited cancer research
Input nucleic acid required*	≥10 ng		
Recommended reads, germline applications	200,000	250,000	1.5 M
Workflow time	<2.5 hours hands-on, 1.5 days total library preparation		
Supported sample types	Whole blood, saliva, FFPE		
Reagent format	Lyophilized or liquid		
Platform compatibility	Illumina®		
Analysis	Archer™ Analysis		
Customization	Add functionally tested designs or build a new panel through Assay Marketplace		

*Input mass requirements vary depending on type and quality. If input is not limiting, 200 ng is recommended.

Explore the Archer VARIANT*Plex*™ Hereditary Cancer panel and customize content.

go.idtdna.com/archer-request-a-consultation

danaher

For Research Use Only. Not for diagnostic procedures. Unless otherwise agreed to in writing, IDT does not intend these products to be used in clinical applications and does not warrant their fitness or suitability for any clinical diagnostic use. Purchaser is solely responsible for all decisions regarding the use of these products and any associated regulatory or legal obligations.

© 2026 Integrated DNA Technologies, Inc. All rights reserved. Archer™, AMP™, VARIANTPlex™. Trademarks contained herein are the property of Integrated DNA Technologies, Inc. or their respective owners. For specific trademark information, see idtdna.com/trademarks. Illumina® is a registered trademark of Illumina, Inc.

Doc ID: RUO26-4627_001 11/26