

Arima-HiC+ FFPE Kit

Leverage the Arima-HiC+ FFPE kit and workflow for the detection and discovery of structural variants from archival or clinical samples.

Unlocking the Potential of FFPE Samples

Formalin fixed paraffin embedded tissues (FFPE) are a critical archival and clinical sample type. Despite their importance and availability, FFPE samples typically perform poorly in most molecular assays due to DNA damage between and within DNA molecules.

The Arima-HiC+ FFPE kit expands the utility of FFPE samples for the detection of structural variants in the genome using the Arima Hi-C technology. With our robust and easy-to-use workflow, FFPE samples can yield critical genomic information regardless of the age of the samples.



Advantages of the Arima-HiC+ FFPE Kit



Proven Performance: Use Arima's proven HiC+ technology to generate high-quality data from clinically relevant samples



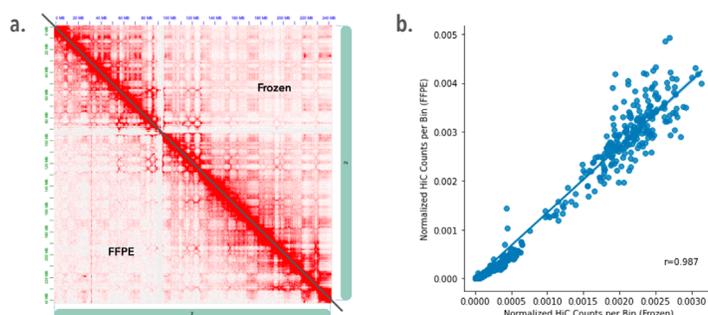
Dependable Results: Generate data you can trust, with built in QC steps to ensure you get reliable sequencing results every time



Increased Discovery Power: Capture more data from FFPE samples to detect structural variants and their impacts on gene regulation

High-Quality Data for Comprehensive Insights

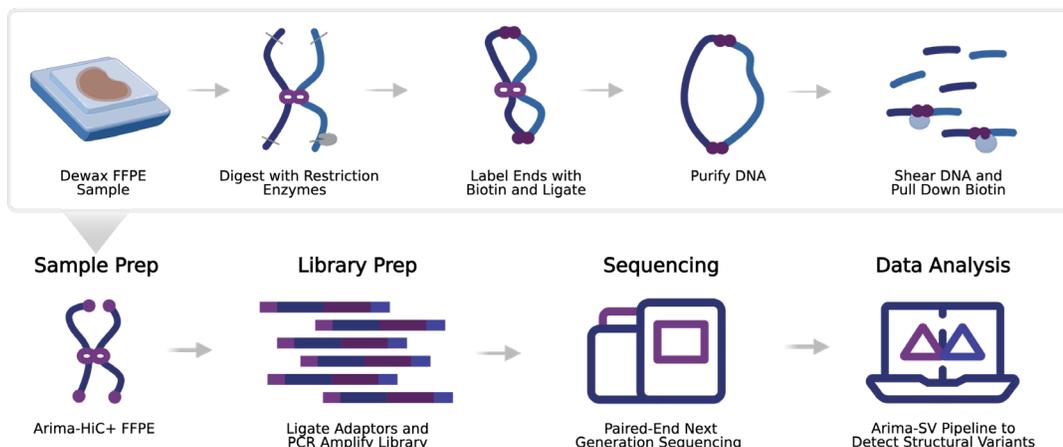
Generate dependable results from FFPE tissue samples to detect both coding and non-coding structural variants in this hard-to-use sample type.



FFPE Sample Results are Highly Correlated to Frozen Tissues. Matched frozen and FFPE tissue of K562 cell cultures were processed with the Arima-HiC+ and Arima-HiC+ FFPE kits, respectively. Libraries were generated following Arima protocols and sequenced using Illumina next generation sequencing (57M and 27M reads were generated, respectively). Representative data for Chromosome 2 at 500 Mb are shown in a. Hi-C contact heat map (500Mb resolution) and b. correlation plot of the normalized Hi-C counts per bin for frozen versus FFPE samples showing a high correlation ($r=0.987$).

Arima-HiC+ FFPE Workflow

The Arima-HiC+ FFPE kit and workflow allow you to go from sample to analysis quickly and easily.



Product List

Product	Description	Size	SKU
Arima-HiC+ FFPE kit ¹	Arima-HiC+ for FFPE samples	8 rxn	A101060
Arima-HiC+ FFPE service	Arima-HiC+ for FFPE samples processed by Arima Genomics	1 sample	A201090

Arima offers end-to-end service with all our products for any sample type.

Specifications

Sample Type	FFPE tissue
Sample Input	5 mm ³ of tissue (~5 x 5µm FFPE tissue sections)
Sequencing Requirements	2 x 150 paired-end reads from Illumina® A minimum of 100M reads for SV detection is recommended*
Library Prep	Swift Biosciences® Accel-NGS® 2S Plus DNA Library Kit ²
Supported Bioinformatics	Arima-SV pipeline ³

*Performance results vary based on sample quality and purity.

References

1. [User Guide: Arima-HiC for Formalin Fixed Paraffin Embedded \(FFPE\) Tissues](#). Arima Genomics.
2. [User Guide: Library Preparation using Swift Biosciences Accel-NGS 2S Plus DNA Library Kit](#). Arima Genomics.
3. [Bioinformatics User Guide: Arima Structural Variant Pipeline](#). Arima Genomics.

Contact an Arima Genomics scientist for a quote or project consultation. 