Arima Capture-HiC+

INTRODUCTION

The Arima Capture-HiC+ platform technology enables researchers to characterize the spatial, 3-dimensional properties of genomic regions of interest. Researchers now have the ability to compare and contrast the regulatory landscape of different tissues/samples with **Promoter Capture**, detect different classifications of structural rearrangements at high-resolution with **Region Capture**, and assess the impact of non-coding variants on the coding regions of the genome with **Variant Capture**. Furthermore, we offer an **open bioinformatics platform** that is optimized to deliver conformation profiles with minimal setup.

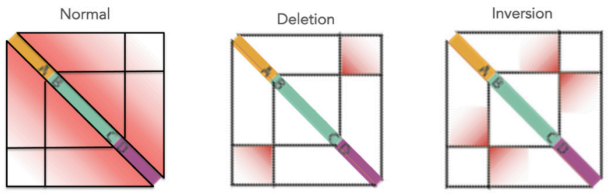


Figure 1. Arima Capture Hi-C enables detection of different types of structural rearrangements.

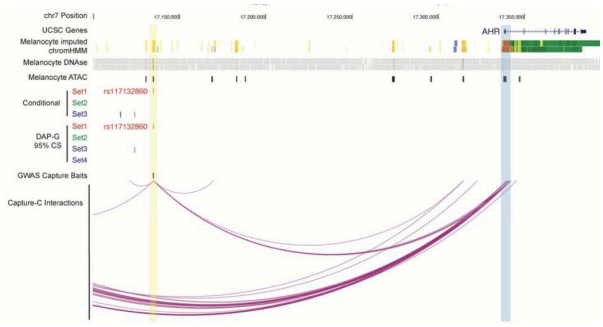


Figure 2. Target non-coding variants with baits and determine if they are significant

PROMOTER CAPTURE

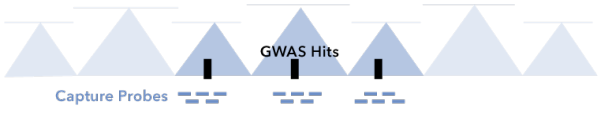
Characterize the regulatory landscape of samples

REGION CAPTURE

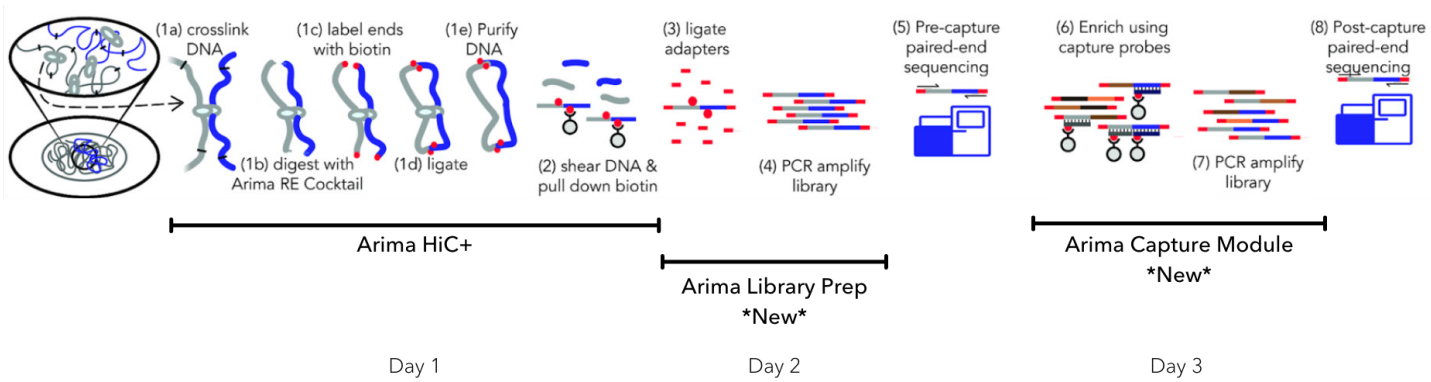
Detect various forms of structural rearrangements at super high resolution

VARIANT CAPTURE

Characterize the 3-dimensional impact of non-coding variants



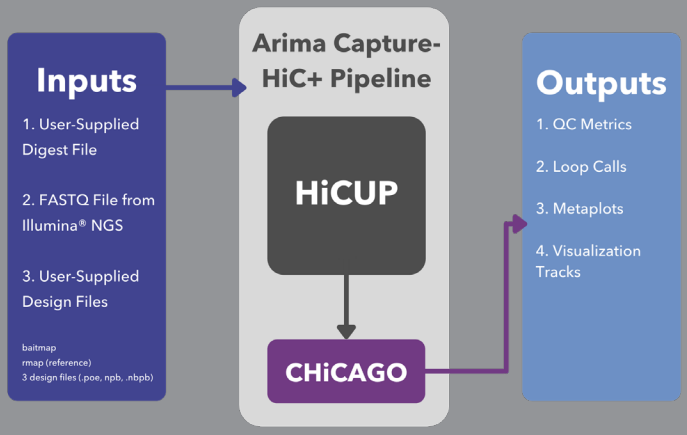
SEQUENCING READY LIBRARIES IN JUST 3 DAYS



AN OPEN AND OPTIMIZED BIOINFORMATICS PLATFORM

The Arima Capture-HiC+ pipeline is built upon the open-source HiCUP and CHiCAGO pipelines. When combined with the Arima Promoter Capture panel, users only need to supply the FASTQ sequencing file from the Illumina® sequencing run – all other files and documents are supplied by Arima to help your bioinformatics team streamline their analysis.

The outputs from users everything they need to confirm that the quality of the data meets their needs, to characterize interactions via loop calls, and to visualize their data leveraging the Wash U Epigenome Browser.



PRODUCT SPECIFICATIONS

Tier 1	Tier 2	Tier 3	Tier 4	Tier 5
1kb - 499Kb	0.5KMb-2.99Mb	3Mb-5.9Mb	6Mb - 12Mb	12Mb-24Mb

PRODUCT LIST

Arima Capture-HiC+ Kits

- 8 rxn Arima HiC+ kits x 1 (8 rxns) / 8 rxn Arima HiC+ kits x 2 (16 rxns)
- Arima Capture Module x 1
- Arima Library Prep Module x 1

Sample Type*	Cell Culture, Primary Cells
Sample Input**	Standard Input: 1M cells
Reads	10M reads per 1Mb of captured region
Compatible Sequencer	Illumina™ sequencing platforms
Bioinformatics	Arima Capture-HiC+ Pipeline

*Other sample types are possible based
**Lower input amounts are possible; contact Arima Genomics Tech Support for more information.

Arima Library Prep Modules

SKU	Description	Size
A303010	Arima Library Prep kit	16 rxns

SKU	Description	Size
A301010	Arima HiC+ for promoter cHiC (human)	8 rxns
A301020	Arima HiC+ for promoter cHiC (mouse)	8 rxns
A301031	Arima HiC+ for custom cHiC, Tier 1	16 rxns
A301032	Arima HiC+ for custom cHiC, Tier 2	16 rxns
A301033	Arima HiC+ for custom cHiC, Tier 3	16 rxns
A301034	Arima HiC+ for custom cHiC, Tier 4	16 rxns
A301035	Arima HiC+ for custom cHiC, Tier 5	16 rxns

Arima Capture Modules

SKU	Description	Size
A302010	Arima Promoter Capture module (human)	8 rxns
A302020	Arima Promoter Capture module (mouse)	8 rxns
A302031	Arima Custom Capture module, Tier 1	16 rxns
A302032	Arima Custom Capture module, Tier 2	16 rxns
A302033	Arima Custom Capture module, Tier 3	16 rxns
A302034	Arima Custom Capture module, Tier 4	16 rxns
A302035	Arima Custom Capture module, Tier 5	16 rxns