xGen™ NGS—HELPING RESEARCHERS OVERCOME CANCERS BIGGEST CHALLENGES

Don't limit your research, customize your workflow to your needs

With IDT's xGen solutions researchers can customize their workflow components to their specific needs

LIBRARY PREP KITS—ONE VENDOR FOR ALL YOUR LIBRARY PREP NEEDS

Whether you're working with DNA or RNA, low-input amounts, or challenging samples (i.e., FFPE, cfDNA); IDT has a library prep solution to overcome your cancer research challenges.

ADAPTERS & PRIMERS—COMPREHENSIVE OFFERING OF HIGH PURITY ADAPTERS AND PRIMERS

Whether your project requires a basic indexing solution or a more sophisticated design, we have the products and expertise to deliver the right solution.

HYBRIDIZATION CAPTURE PANELS—CUSTOMIZE & SCALE YOUR WORKFLOW AS NEEDED

The IDT xGen hybridization products include a variety of predesigned cancer specific panels and custom panel options that are available in a range of panel sizes. All supported by an automation-friendly protocol for those working with high-throughput type applications.

AMPLICON SEQUENCING—SEQUENCE FASTER WITH AN EASY-TO-USE WORKFLOW

Expertly designed research panels using content from peer-reviewed publications and thought leader input. Panels include primers for researching cancer genes, rare disease, and sample tracking applications.

PRODUCT SPOTLIGHT: ENABLING ULTRA-LOW FREQUENCY VARIANT IDENTIFICATION IN CTDNA WITH xGen cfDNA & FFPE LIBRARY PREP KIT WITH CUSTOM XGEN HYB CAPTURE PANEL

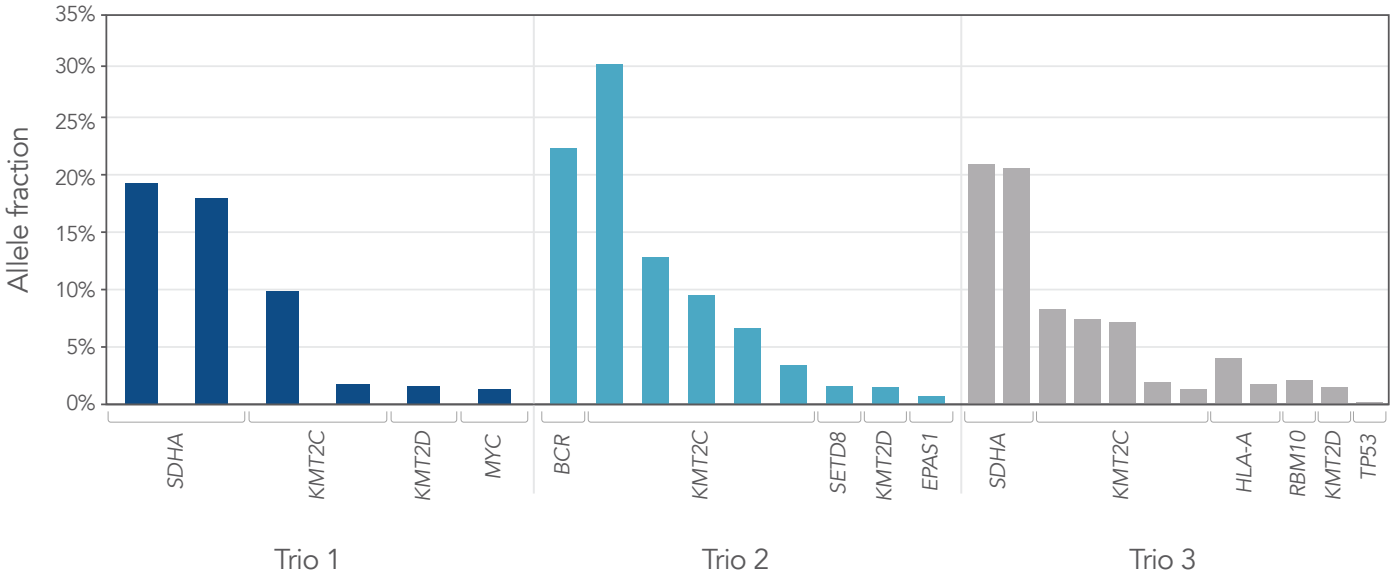
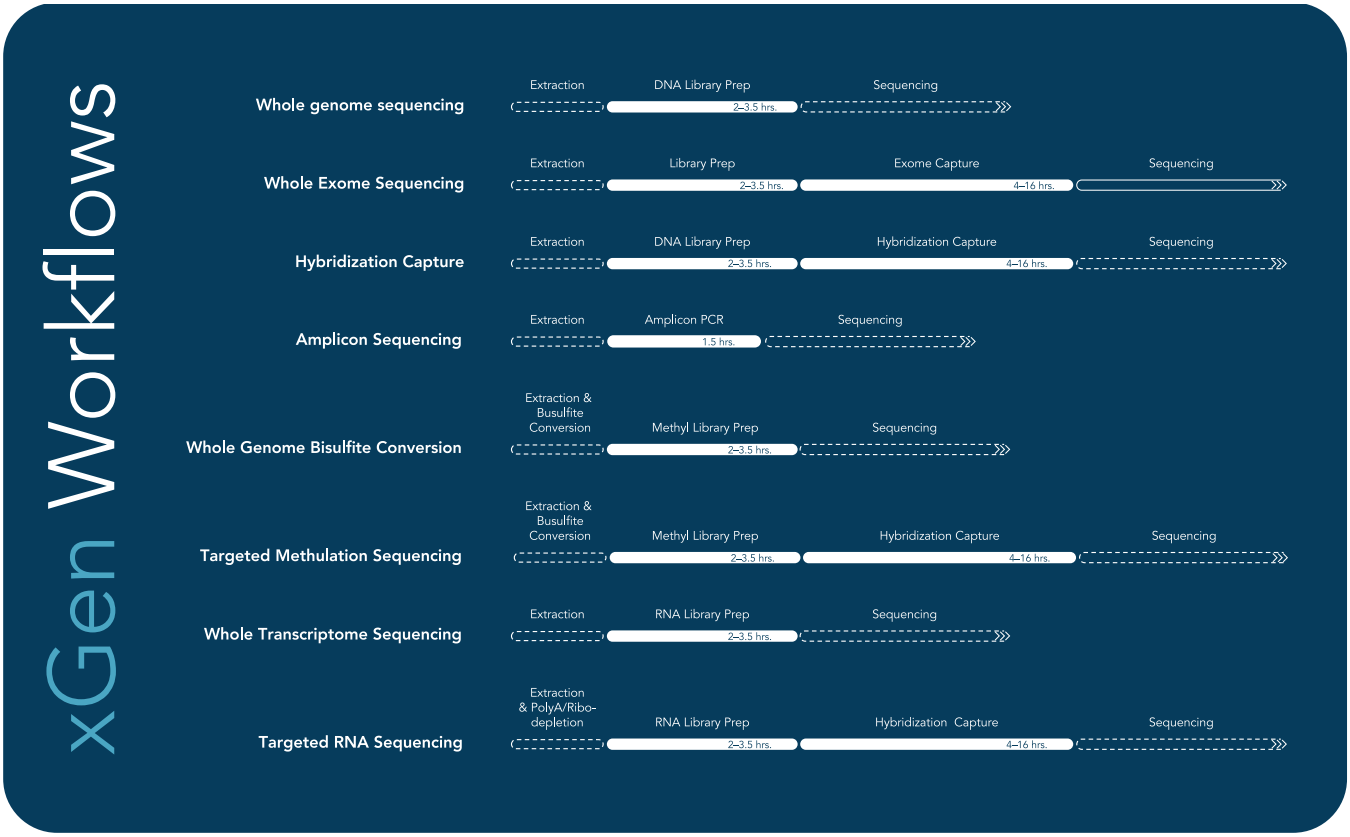


Figure 1. Libraries were generated according to the xGen cfDNA & FFPE DNA Library Prep Kit protocol using 25 ng matched cfDNA from three trios. (*n* = 3) Libraries were captured with subject-specific xGen Custom Hyb Panels. After sequencing, reads were mapped using BWA (0.7.15). Error correction with combined read families was performed as described in the xGen cfDNA & FFPE DNA Library Prep Kit Analysis Guidelines. Finally, variants were called using VarDict (1.5.8); no filters were applied for the error-corrected xGen cfDNA & FFPE DNA Library Prep Kit data. Allele fraction of each tumor-associated variant for each subject is shown.



MIX AND MATCH YOUR ONCOLOGY RESEARCH WORKFLOW COMPONENTS

Target enrichment components for hybridization capture or amplicon sequencing methods

Library Prep Kits	Adapters & Primers	Hyb Capture Panels
• DNA Library Prep EZ or MC • cfDNA & FFPE DNA Library Prep • RNA Library Prep • Broad-range RNA Library Prep • Methyl-Seq Library Prep	• Unique Dual Index (UDI) • UDI + UMI • UDI + Stubby Adapters • Combinatorial Bual Index (CDI) • Single Index (SI)	• Custom Hyb Panels • Exome Hyb Panel v2 • Pan Cancer Hyb Panel • AML Canver Hyb Panel • Inherited Disease Hyb Panel • CNV Backbone Hyb Panel • Hyman ID Hyb Panel

Library Prep Kits	Primers	Amplicon Panels
Amplicon Care Kit	• Unique Dual Index (UDI) • Combinatorial Dual Index (CDI)	• Custom Amplicon Panels • 56G Onco Amp Panel • 57G Pan-Cancer Amp Panel • BRCA1/2 Amp Panel • Colorectal Amp Panel • EGFR Pathway Amp Panel • Lynch Amp Panel • Myeloid Amp Panel • TP 53 Amp Panel

LEARN MORE ABOUT OUR ONCOLOGY RESEARCH SOLUTIONS

There are multiple factors to take into consideration when determining the best NGS approach for your oncology research needs. Download IDT's 11 page brochure to explore in further detail our xGen NGS solutions for oncology research.

> FOR MORE INFORMATION, VISIT **WWW.IDTDNA.COM/NGS**