Improved target enrichment workflow

Accelerate your NGS studies with our xGen™ Hybridization and Wash Kit v3 and protocol

Convenient workflow
Expect quality-driven results with our revised, end-to-end capture workflow

Complete kit
Execute your NGS study with a complete solution using our upgraded kit

Higher throughput
Expand your throughput with our automation-friendly workflow with no heated buffers

The xGen Hybridization and Wash Kit v3 has been developed to work with xGen Predesigned or Custom Hyb Panels and xGen Blocking Oligos for a complete, high-quality target enrichment solution. This hybridization capture workflow can be used to enrich Illumina®-sequencer compatible NGS libraries such as those created using xGen cfDNA & FFPE MC v2 Library prep, xGen Methyl-Seq, xGen cfDNA & FFPE MC v2 Library Prep or xGen Broad-Range RNA Library Prep kits. The new shorter and easier workflow can speed up your NGS Targeted Sequencing workflow to fit in one workday.

xGen hybridization capture workflow

Prepare libraries
IDT library prep kits and IDT adapters

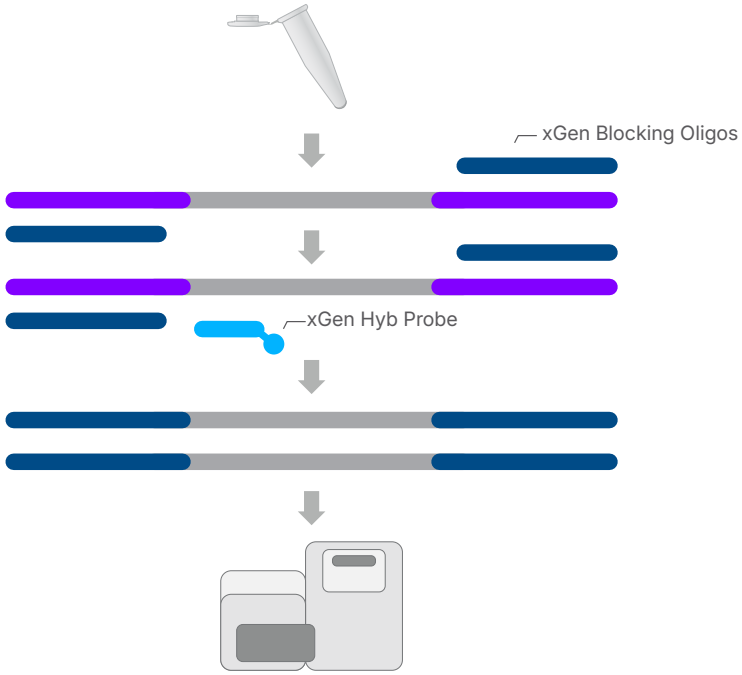
Target enrichment
xGen Hybridization Capture Core Reagents

Add blockers
xGen Blocking Oligos

Capture & wash
xGen Predesigned or Custom Hyb Panel, xGen Hybridization & Wash Kit

Amplify DNA
xGen Library Amplification Primer Mix

Sequence libraries
Illumina® platforms



IDT proprietary DNA synthesis produces rapid, high-quality panels that can be optimized, expanded, and combined with other panels for research studies. xGen Custom Hyb Panels include your choice of high-fidelity, individually synthesized, 5′-biotinylated oligos for targeted NGS research. Each custom panel is created by mixing equimolar concentrations of each probe, which promotes equal representation of each probe in the final product. This delivers high on-target rates and deep, uniform coverage even across difficult GC-rich regions. IDT provides both predesigned and custom hyb panels, including the xGen Exome Hyb Panel v2, xGen Inherited Diseases Panel, and xGen Pan-Cancer Panel.

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Kit Contents	xGen Hybridization and Wash Kit v3 (new kit)	xGen Hybridization and Wash Kit v2
Hybridization Buffer	1X Buffer	2X Buffer
Stringent Wash Buffer	1X Buffer	10X Buffer (heated)
Bead Wash Buffer	2X Buffer	2X Buffer
Wash Buffer I	1X Buffer	10X Buffer (heated)
Wash Buffer II	1X Buffer	10X Buffer
Wash Buffer III	Not needed	10X Buffer
xGen 2X HiFi PCR Mix	Included	Included
Human Cot DNA	Included	Included
Supported workflows		
Manual, tube-based	✓	✓
Manual, plate-based	✓	✓
Optimized for automation	✓	✓

Ordering information

Product	Size	Catalog #
xGen Hybridization and Wash Kit v3	16 rxn	10028311
	96 rxn	10028312
xGen Hybridization and Wash v3 Beads	16 rxn	10025272
	96 rxn	10025273

Related Products	Size	Catalog #
xGen NGS Hyb Panels	16	**www.idtdna.com/page/products/next-generation-sequencing/hybridization-capture**
	96	
	Custom	
xGen Universal Blockers	16	1075474, 1081100, 1079584
	96	1075475, 1081101, 1079585
	4×96	1075476, 1081102, 1079586
xGen Library Amplification Primer Mix	16	1077675
	96	1077676
	192	1077677
xGen NGS Library Prep Kits	16	**www.idtdna.com/page/products/next-generation-sequencing/library-preparation**
	96	
xGen NGS Indexes and Adapters	Varies	**www.idtdna.com/page/products/next-generation-sequencing/ngs-adapters-indexing-primers**
xGen Pre-hybridization Capture Normalase™ Module	96	10017913

For more information, visit **idtdna.com/xGen**

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