IMPROVED TARGET ENRICHMENT WORKFLOW

Accelerate your NGS studies with our xGen™ Hybridization and Wash Kit 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 options using our protocols to run plates manually or on automated workstations

The xGen Hybridization and Wash Kit 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 DNA Library Prep, xGen Methyl-Seq, or xGen Broad-Range RNA Library Prep kits.

xGEN HYBRIDIZATION CAPTURE WORKFLOW

Prepare libraries
IDT library prep kits and IDT adapters

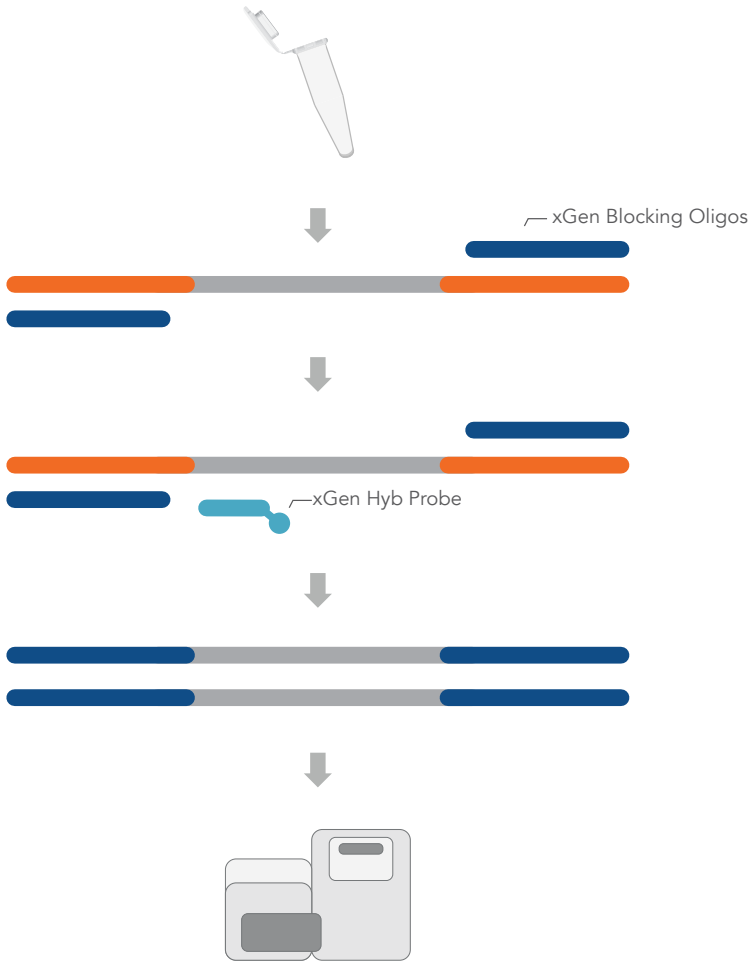
Target enrichment
xGen Hybridization Capture Core Reagents

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



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> WWW.IDTDNA.COM

INTEGRATED DNA TECHNOLOGIES

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.

Kit contents	xGen Hybridization and Wash Kit (new kit)	xGen Lockdown Reagents (legacy kit)
2X Hybridization Buffer	✓	✓
Hybridization Buffer	✓	✓
2X Bead Wash Buffer	✓	✓
10X Wash Buffer I	✓	✓
10X Wash Buffer II	✓	✓
10X Wash Buffer III	✓	✓
10X Stringent Wash Buffer	✓	✓
Dynabeads™ M-270 Streptavidin	✓	
Human Cot DNA	✓	
Supported Workflows		
Manual, tube-based	✓	✓
Manual, plate-based	✓	
Optimized for automation	✓	

The xGen Hybridization and Wash Kit replaces IDT's legacy xGen Lockdown Reagents. This expanded kit is now comprehensive—it takes you from beginning to end of the entire hybridization capture workflow. A newly optimized protocol, the xGen hybridization capture of DNA libraries, provides support for both 96-well plate and individual tube formats. An automated NGS target enrichment protocol is also available for high-throughput labs with liquid handling instruments for other automation platform inquiries please reach out to www.idtdna.com/ContactUs. Realize a potential 30%* savings in overall consumable reagent cost using the new xGen Hybridization and Wash Kit, compared with the legacy kit.

ORDERING INFORMATION

Product	Size	Catalog #
xGen Hybridization and Wash Kit	16 rxn	1080577
	96 rxn	1080584
Related Products	**Size**	**Catalog #**
xGen Library Amplification Primer Mix	16 rxn	1077675
	96 rxn	1077676
	192 rxn	1077677
xGen NGS library prep kits	16 rxn	www.idtdna.com/library-prep
	96 rxn	
xGen NGS adapters	Varies	www.idtdna.com/NGS-adapters
xGen NGS Hyb Panels and Core Reagents	16 rxn, 96 rxn, custom	www.idtdna.com/NGS-Discovery-Pools

* 30% cost savings based on previous xGen Lockdown Reagent workflow and purchasing recommended, third-party reagents at list price.

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