

xGEN PREDESIGNED GENE CAPTURE POOLS

Experience the convenience and superior performance of predesigned gene capture pools for targeted next generation sequencing



Generate deep and uniform coverage data from superior hybridization capture performance



Enjoy a simple ordering process—no need to submit individual input sequences for custom probe design



Choose only the genes you want delivered quickly with a choice of formats



Obtain full exon coverage for a given gene with each gene pool design

ACHIEVE ROBUST SEQUENCE CAPTURE AND BETTER UNIFORMITY

xGen Predesigned Gene Capture Pools are based on xGen Lockdown Probe technology for targeted next generation sequencing. Each 5'-biotinylated, 120mer DNA probe is individually synthesized and quality controlled to deliver superior hybridization capture performance. Compared to array-synthesized and other suppliers' probes, xGen Lockdown Probes have been shown to exhibit better uniformity and less GC bias, allowing you to sequence deeper with fewer overall reads (Figure 1).

xGen Predesigned Gene Capture Pools are designed using the GRCh37/hg19 reference genome and are available for any human RefSeq coding gene. Enter your target gene symbols into the xGen Lockdown Design Tool and receive your panel in 7–10 days.

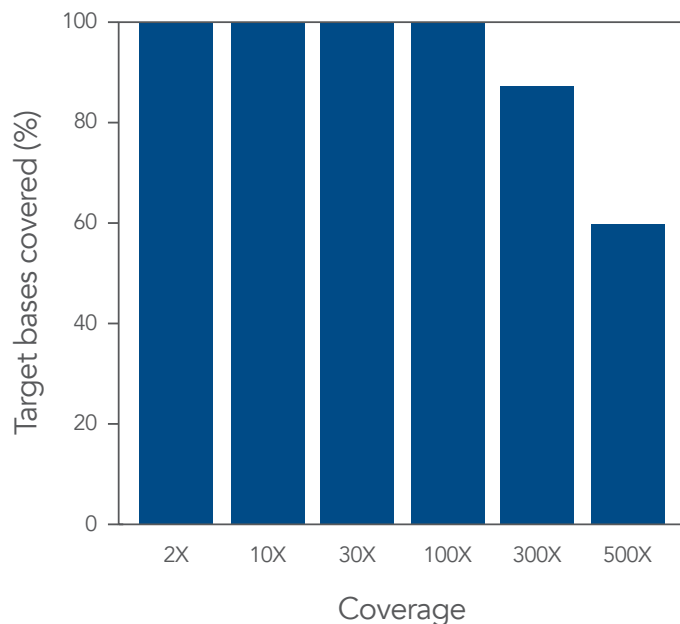


Figure 1. xGen Predesigned Gene Capture Pools provide deep sequence coverage. Genomic DNA from 18 samples was enriched for exon sequences of 20 genes using xGen Predesigned Gene Capture Pools. Captured, adapter-ligated samples were sequenced in pools of 8 on a MiSeq® system (Illumina) and mapped to the human genome. Bars represent the median percentage of bases covered for probe-targeted exons.

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SELECT A DELIVERY FORMAT TO SUIT YOUR NEEDS

xGen Predesigned Gene Capture Pools are shipped formulated in buffer and ready-to-use.

Available in 2 convenient formats:

Premixed custom panels

- Probes for your selected genes are pooled and delivered in a single tube
- Available in 16- and 96-reaction sizes

Separate probe pools per gene

- Individual probe pools for each gene, delivered in a 96-well plate (Figure 2)
- Available in 96-reaction size

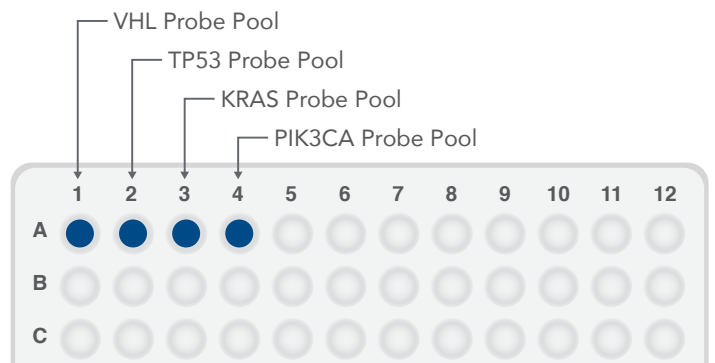


Figure 2. Representative 96-well plate format.

ORDERING INFORMATION

Product	Size	Catalog #
xGen Lockdown Probe Pools	16 rxn	www.idtdna.com/LockdownProbes
	96 rxn	
	4 x 96 rxn	
Related products		
IDT Library Prep Kits	16 rxn	www.idtdna.com/library-prep
	96 rxn	
IDT NGS Adapters	Varies	www.idtdna.com/NGS-adapters
xGen Universal Blockers—TS Mix*	16 rxn	1075474
	96 rxn	1075475
	4 x 96 rxn	1075476
xGen Hybridization and Wash Kit	16 rxn	1080577
	96 rxn	1080584

* Blocks Illumina HT and LT adapters with a single mix.

> FOR MORE INFORMATION, VISIT WWW.IDTDNA.COM/LOCKDOWNPROBES.

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