

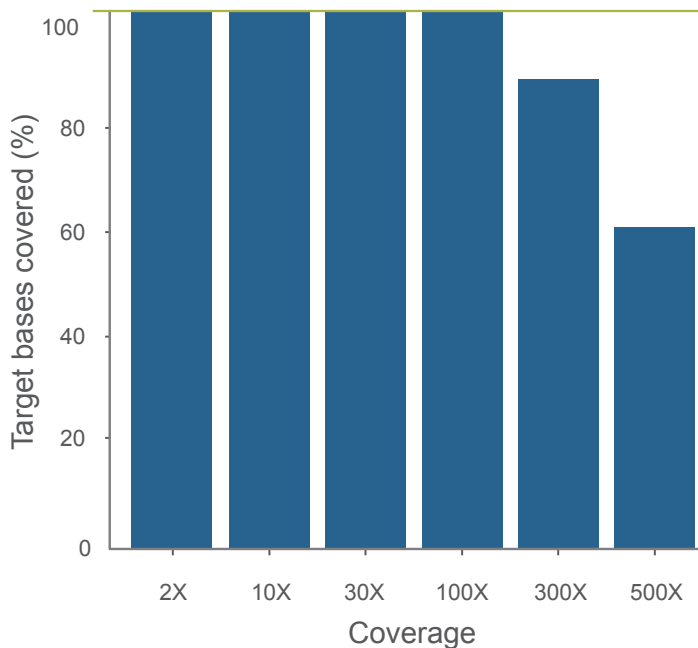
## xGen® Predesigned Gene Capture Pools

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

### Achieve robust sequence capture and better uniformity

xGen Predesigned Gene Capture Pools are based on xGen Lockdown® Probe technology for targeted 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 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.

### benefits

**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.

Discover more at  
[www.idtdna.com/xGen](http://www.idtdna.com/xGen)

## Select a delivery format to suit your needs

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

Available in two 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

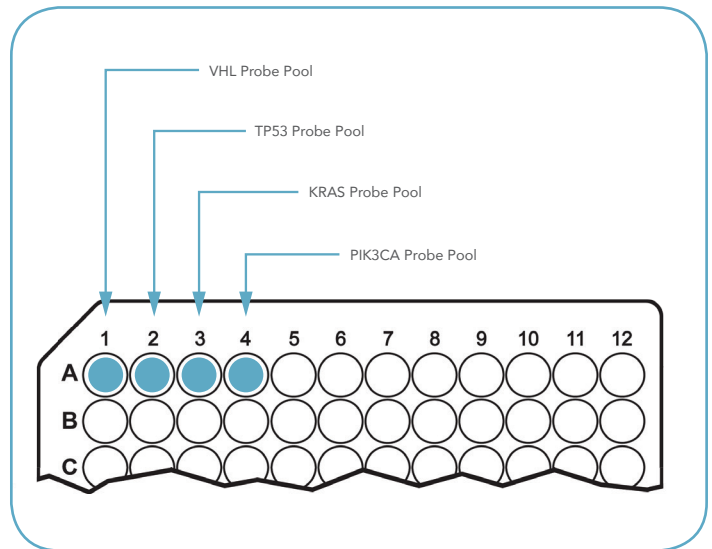


Figure 2. 96-well plate format.

## Ordering information

Product	Unit size	Catalog #
xGen® Predesigned Gene Capture Pools	16 reactions	Order at <a href="http://www.idtdna.com/xGen">www.idtdna.com/xGen</a>
	96 reactions	

## Related products

xGen® Lockdown® Probes	Mini (1 reaction/probe)	Order at <a href="http://www.idtdna.com/xGen">www.idtdna.com/xGen</a>
	Standard (8 reactions/probe)	
	XL (64 reactions/probe)	
xGen® Universal Blockers—TS Mix*	16 reactions	1075474
	96 reactions	1075475
	4 x 96 reactions	1075476
xGen® Lockdown® Reagents†	16 reactions	1072280
	96 reactions	1072281

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

† Hybridization and wash kit.

[www.idtdna.com/LockdownProbes](http://www.idtdna.com/LockdownProbes)

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