

# Next Generation Sequencing Product Catalog

IDT delivers innovative, high-performing NGS products to enable you to increase your discovery power. Provided below are the various IDT solutions for your NGS workflows.



## EXTRACTION

- Beckman Coulter Life Sciences Genomics Reagents



## LIBRARY PREP

- Library prep kits
- NGS adapters



## TARGET ENRICHMENT

- Hybridization capture
- Amplicon sequencing



## SEQUENCING

- Illumina
- Pacific Biosciences
- Oxford Nanopore Technologies

## xGen™ Lockdown Panels

| <u>xGen Lockdown Panels</u>   | Catalog Number | Reactions |
|---|----------------|-----------|
| <b>xGen Acute Myeloid Leukemia Cancer (AML) Panel v1.0</b><br>11,743 probes for 264 genes associated with AML                   | 1016303        | 16        |
|   | 1016302        | 96        |
| <b>xGen Inherited Diseases Panel v1.0</b><br>116,355 probes for 4,503 genes and 180 SNPs associated with hereditary diseases    | 1016352        | 16        |
|   | 1016351        | 96        |
| <b>xGen Pan-Cancer Panel v1.0</b><br>7,816 probes for 127 genes associated with 12 tumor types                                  | 1056205        | 16        |
|   | 1056204        | 96        |
| <b>xGen Exome Research Panel v2</b><br>415,115 probes for 19,396 genes for comprehensive coverage of human coding regions       | 10005152       | 16        |
|   | 10005153       | 96        |
| <b>xGen Human ID Research Panel v1.0</b><br>229 probes targeting SNPs to identify one patient in > 5 million biological samples | 1075702        | 16        |
|   | 1075703        | 96        |
| <b>xGen Human mtDNA Research Panel v1.0</b><br>138 probes to detect variants of mitochondrial DNA                               | 1075705        | 16        |
|   | 1075706        | 96        |
| <b>xGen CNV Backbone Panel—Tech Access</b><br>9,115 probes spaced approximately every 0.34 Mb across the genome                 | 1080563        | 16        |
|   | 1080561        | 96        |

| <u>Custom Panels: xGen Predesigned Gene Capture Pools</u> |                                     | Catalog Number | Reactions |
|---|-------------------------------------|----------------|-----------|
| 10–29 genes   | xGen Predesigned Gene Capture Pools | Custom         | 16 or 96  |
| 30–49 genes   | xGen Predesigned Gene Capture Pools | Custom         | 16 or 96  |
| 50–99 genes   | xGen Predesigned Gene Capture Pools | Custom         | 16 or 96  |
| 100–199 genes   | xGen Predesigned Gene Capture Pools | Custom         | 16 or 96  |
| 200–399 genes   | xGen Predesigned Gene Capture Pools | Custom         | 16 or 96  |
| 400–599 genes   | xGen Predesigned Gene Capture Pools | Custom         | 16 or 96  |
| 600–799 genes   | xGen Predesigned Gene Capture Pools | Custom         | 16 or 96  |
| 800–1000 genes  | xGen Predesigned Gene Capture Pools | Custom         | 16 or 96  |

| Custom Panels: xGen Lockdown Probes |                           | Catalog Number | Reactions |
|-------------------------------------|---------------------------|----------------|-----------|
| 50–1000 probes                      | xGen Lockdown Probe Pools | Custom         | 16 or 96  |
| 1001–2000 probes                    | xGen Lockdown Probe Pools | Custom         | 16 or 96  |
| 2001–3000 probes                    | xGen Lockdown Probe Pools | Custom         | 16 or 96  |
| 3001–4000 probes                    | xGen Lockdown Probe Pools | Custom         | 16 or 96  |
| 4001–5000 probes                    | xGen Lockdown Probe Pools | Custom         | 16 or 96  |
| 5001–6000 probes                    | xGen Lockdown Probe Pools | Custom         | 16 or 96  |
| 6000–7000 probes                    | xGen Lockdown Probe Pools | Custom         | 16 or 96  |
| 7000–8000 probes                    | xGen Lockdown Probe Pools | Custom         | 16 or 96  |

| Custom Panels: NGS Discovery Pools |                | Catalog Number | Reactions |
|------------------------------------|----------------|----------------|-----------|
| 50–14,999 probes                   | Discovery Pool | Custom         | 16 or 96  |
| 15,000–24,999 probes               | Discovery Pool | Custom         | 16 or 96  |
| 25,000–49,999 probes               | Discovery Pool | Custom         | 16 or 96  |
| 50,000–74,999 probes               | Discovery Pool | Custom         | 16 or 96  |

## Blockers & Capture Reagents

| Hybridization & Wash Kits  | Catalog Number | Reactions |
|--|----------------|-----------|
| Containing buffers, Cot DNA, & streptavidin beads required for capture | 1080577        | 16        |
|  | 1080584        | 96        |

| Blocking Oligos                |   | Catalog Number          | Reactions |
|--------------------------------|---|-------------------------|-----------|
| xGen Universal Blocking Oligos | TS Mix (for TruSeq-style library)       | 1075474                 | 16        |
|                                |   | 1075475                 | 96        |
|                                |   | 1075476                 | 4 x 96    |
|                                | 10 bp TS Mix (for TruSeq-style library) | 1081100                 | 16        |
|                                |   | 1081101                 | 96        |
|                                |   | 1081102                 | 4 x 96    |
|                                |   | 1079584                 | 16        |
|                                |   | 1079585                 | 96        |
|                                | NXT Mix (for Nextera-style library)     | 1079586                 | 4 x 96    |
|                                |   | Custom                  | 10        |
|                                | xGen Standard Blocking Oligos           | Custom                  | 25        |
|                                |   | Ion Torrent (IT-P1 & A) |           |

| Human Cot DNA   | Catalog Number | Size   |
|---|----------------|--------|
| Placental DNA enriched for repetitive DNA sequences. Used to block non-specific binding in DNA hybridization reactions. | 1080768        | 150 µL |
|   | 1080769        | 650 µL |

| xGen Library Amplification Primer Mix  | Catalog Number | Reactions |
|--|----------------|-----------|
| Contains primers complementary to P5 & P7 that are required for post-capture PCR and amplify any library containing P5/P7. | 1077675        | 16        |
|  | 1077676        | 96        |
|  | 1077677        | 192       |

## Adapters

Single index









Unique dual index



xGen Unique Dual  
Index UMI Adapter



-  **Flow cell binding sequence:** Platform-specific sequences for library binding to instrument
-  **Sequencing primer sites:** Binding sites for general sequencing primers
-   **Sample indexes:** Short sequences specific to a given sample library
-  **Molecular index/barcode:** Short sequence used to uniquely tag each molecule in a given sample library
-  **Insert:** Target DNA or RNA fragment from a given sample library

| Custom NGS Adapters                     | Catalog Number |
|---|----------------|
| Single Index Adapters                   | Custom         |
| Dual Index Adapters                     | Custom         |
| Unique Dual Index Adapters (UDI)        | Custom         |
| Unique Dual Index UMI Adapter (UID-UMI) | Custom         |
| CS UMI Adapters (double stranded UMI)   | Custom         |

| xGen UDI-UMI Adapters              | Catalog Number |
|------------------------------------|----------------|
| xGen UDI-UMI Adapters, 1–16        | 10006914       |
| xGen UDI-UMI Adapters, 1–96        | 10005903       |
| xGen Methyl UDI-UMI Adapters, 1–16 | 10006644       |
| 300 mL NGS Adapter Buffer          | 10006743       |

| xGen Stubby Adapter & Unique Dual Index Primer Pairs | Catalog Number |
|--|----------------|
| xGen Stubby Adapter & UDI Primer Pairs, Index 1–16   | 10005976       |
| xGen Stubby Adapter & UDI Primer Pairs, Index 1–96   | 10005921       |

## DNA Library Prep Kits

| High Quality Input DNA      | Catalog Number | Reactions |
|-----------------------------|----------------|-----------|
| Lotus™ DNA Library Prep Kit | 10001073       | 16        |
|                             | 10001074       | 96        |

| FFPE and cfDNA                  | Catalog Number | Reactions |
|---------------------------------|----------------|-----------|
| xGen Prism DNA Library Prep Kit | 10006202       | 16        |
|                                 | 10006203       | 96        |

## Amplicon Enrichment Sequencing System

| Custom rhAmpSeq™ Panels | Catalog Number | Size     |
|-------------------------|----------------|----------|
| Custom rhAmpSeq Panels  | Custom         | 0.4 nmol |
|                         | Custom         | 4 nmol   |
|                         | Custom         | 8 nmol   |

| rhAmpSeq Sample ID Panels | Catalog Number | Reactions |
|---------------------------|----------------|-----------|
| rhAmpSeq Sample ID Panels | 10000082       | 16        |
|                           | 10000083       | 19        |

| rhAmpSeq Library Kit | Catalog Number | Reactions |
|----------------------|----------------|-----------|
| rhAmpSeq Library Kit | 10000064       | 16        |
|                      | 10000065       | 100       |
|                      | 10000066       | 500       |
|                      | 10000067       | 5000      |

| rhAmpSeq Index Primers        | Catalog Number |
|-------------------------------|----------------|
| Index Primers (tube or plate) | Custom         |

> FOR MORE INFORMATION, VISIT [WWW.IDTDNA.COM/NGS](http://WWW.IDTDNA.COM/NGS)



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