xGen™ NGS Portfolio

Extraction → Library Prep + Target Enrichment via Hybrid Capture → Sequencing → Analysis

Target Enrichment via Multiplex PCR (Amplicon Sequencing)

Library prep

- **DNA Library Preparation**
  - xGen cfDNA & FFPE DNA Library Prep Kit
  - xGen ssDNA & Low-input DNA Library Prep
  - xGen DNA Library Prep Kit EZ or MC
  - xGen DNA Library Prep Kit EZ UNI or MC UNI
- **RNA Library Preparation**
  - xGen RNA Library Prep Kit
  - xGen Broad-Range RNA Library Prep Kit
- **Methyl-Seq DNA Library Preparation**
  - xGen Methyl-Seq Library Prep Kit
    - **xGen Adaptase Module**
- **Adapters & Indexing Primers**
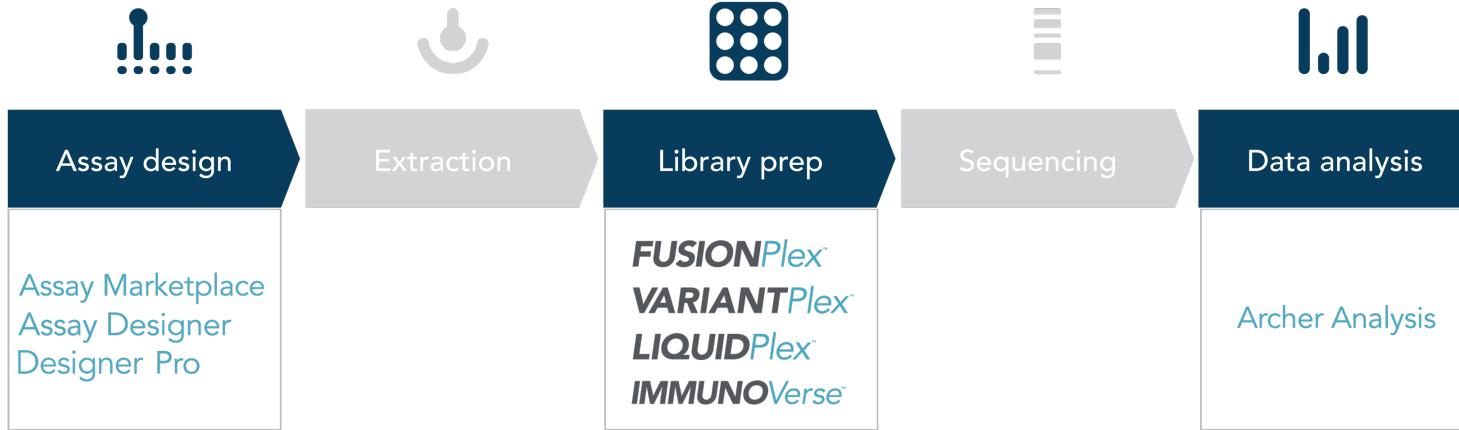 - Up to 1536 UDIs

Hybrid capture

- **Custom Hyb Panels**
- **Pre-Designed Hyb Panels**
  - **xGen MRD Hyb Panel**
  - xGen Exome Hyb Panel v2
  - xGen AML Cancer Hyb Panel
  - xGen Inherited Diseases Hyb Panel
  - xGen Human mtDNA Hyb Panel
  - xGen CNV Backbone Hyb Panel
  - xGen Pan-Cancer Hyb Panel
  - xGen Human ID Hyb Panel
  - xGen SARS-CoV-2 Hyb Panel
- **xGen Hybridization Capture Core Reagents**

Amplicon sequencing

- **Custom Amplicon Panels**
- **Pre-Designed Amplicon Panels**
  - xGen SARS-CoV-2 Amplicon Panel
  - xGen Oncology & Inherited Disease Amplicon Panels
  - xGen Monkeypox Virus Amplicon Panel
  - xGen Metagenomics Amplicon Panels
  - xGen Human Sample ID Amplicon Panel
  - xGen Respiratory Virus Amplicon Panel
  - xGen HS EGFR Pathway Amplicon Panel
  - xGen SARS-CoV-2 Amplicon Panel
- **Pre-Designed Amplicon Primers**
  - SARS-CoV-2 ARTIC Amplicon Panel
  - SARS-CoV-2 Midnight Amplicon Panel

Library normalization

Normalase™ Technology
- xGen Normalase Module
- xGen Pre-hyb Capture Normalase Module
- xGen Normalase UDI Primers
- xGen Normalase CDI Primers

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Assay design → Extraction → **Library prep** → Sequencing → **Data analysis**

Assay design
- Assay Marketplace
- Assay Designer
- Designer Pro

Library prep
- FUSION*Plex*
- VARIANT*Plex*
- LIQUID*Plex*
- IMMUNO*Verse*

Data analysis
- Archer Analysis

Assay design

- **Assay Marketplace**
  - Web-based design tool
  - Predesigned and functionally tested primers
  - Fastest turnaround
- **Assay Designer Service**
  - Consultation with an expert designer
  - Includes *de novo* primers and *in silico* design review
- **Designer Pro Service**
  - Highest level service
  - Includes wet-lab optimization

Library prep

- **Solid tumor panels**
  - VARIANT*Plex* Complete Solid Tumor
  - VARIANT*Plex* Pan Solid Tumor
  - VARIANT*Plex* Expanded Solid Tumor
  - VARIANT*Plex* Core Solid Tumor
  - FUSION*Plex* Pan Solid Tumor
  - FUSION*Plex* Core Solid Tumor
  - FUSION*Plex* Lung v2
  - FUSION*Plex* Sarcoma v2
  - LIQUID*Plex* Universal Solid Tumor
- **Genetic disease panels**
  - VARIANT*Plex* Expanded Carrier
  - VARIANT*Plex* CFTR v2

- **Blood cancer panels**
  - VARIANT*Plex* Myeloid
  - VARIANT*Plex* Core Myeloid
  - VARIANT*Plex* AML Focus
  - VARIANT*Plex* MPN Focus
  - FUSION*Plex* Pan-Heme
  - FUSION*Plex* Heme v2
  - FUSION*Plex* Myeloid
  - FUSION*Plex* ALL
  - FUSION*Plex* Lymphoma
- **Immune profiling panels**
  - IMMUNO*Verse* TCR panel
  - IMMUNO*Verse* BCR panel

Data analysis

- **Archer Analysis**
  - Easy-to-use data analysis platform with optimized bioinformatics workflows
  - Supports all Archer assays and enables a broad range of applications
  - Available as a private-cloud hosted service, or as a virtual machine for local deployments

Customize panel content or design from scratch with assay design services

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