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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Workflow

Assay design	Extraction	Library prep	Sequencing	Variant calling	Variant analysis and annotation
Assay Marketplace Assay Designer Designer Pro		FUSIONPlex VARIANTPlex LIQUIDPlex IMMUNOVerse		Archer Analysis	Molecular Health tertiary analysis platforms

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 v2
- VARIANT*Plex* Pan Solid Tumor v2
- VARIANT*Plex* HRD Module
- VARIANT*Plex* Expanded Solid Tumor
- VARIANT*Plex* Core Solid Tumor
- FUSION*Plex* Pan Solid Tumor v2
- FUSION*Plex* Core Solid Tumor v2
- FUSION*Plex* Lung v2
- FUSION*Plex* Sarcoma v2
- LIQUID*Plex* Universal Solid Tumor

Solid tumor and blood cancer panel
- VARIANT*Plex* Comprehensive Tissue and Blood

Blood cancer panels
- VARIANT*Plex* Myeloid
- VARIANT*Plex* Core Myeloid
- VARIANT*Plex* AML Focus
- VARIANT*Plex* MPN Focus
- VARIANT*Plex* Lymphoma
- FUSION*Plex* Pan-Heme
- FUSION*Plex* Heme v2
- FUSION*Plex* Myeloid
- FUSION*Plex* ALL
- FUSION*Plex* Lymphoma

Genetic disease panels
- VARIANT*Plex* Expanded Carrier
- VARIANT*Plex* *CFTR* v2

Immune profiling panels
- IMMUNO*Verse* TCR
- IMMUNO*Verse* BCR

Variant calling

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

Variant analysis & annotation

Molecular Health tertiary analysis
- MH Guide CAS variant annotation software is designed for easy-to-use tertiary analysis
- Maximize efficiency and streamline genomic data workflows

Customize panel content or design from scratch with assay design services

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