PRODUCTS & SERVICES

TreeCODE

Decoding Life Through Science

Sequencing Service

Single Molecule, Real-Time (SMRT) Sequencing technology offers:

- Long read sequencing
  - ≤ 15 kB HiFi Sequencing
  - ≥ 20 kB CLR Sequencing
- High consensus accuracy
- Free of systematic errors
- Fast Turn-Around Time

Applications:

- Whole Genome Sequencing
- Targeted Sequencing
- RNA Sequencing
- Complex Populations
- Epigenetics

Call us now for a sequencing service consultation!!

Project Design & Consultation → Sample Prep & QC → SMRT Library Prep & Sequencing → Data Analysis

Sequencing Service

Illumina Sequencing technology offers:

- Short Read Sequencing
  - 50 – 300 bp
- High consensus accuracy
- Higher throughput with sample multiplexing
- Fast Turn-Around Time

Applications:

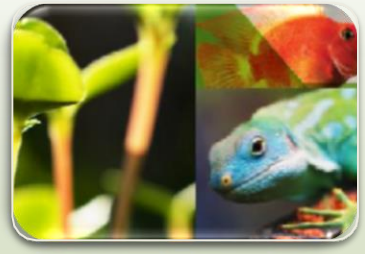
- Whole Genome Sequencing
- Targeted Sequencing
- RNA Sequencing
- Small RNA Sequencing
- Epigenetics

Call us now for a sequencing service consultation!!

Project Design & Consultation → Sample Prep & QC → NGS Library Prep & Sequencing → Data Analysis

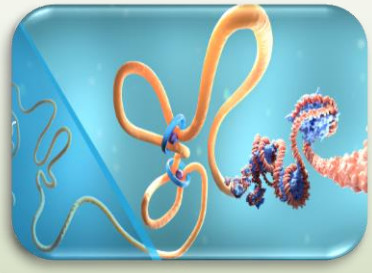
Dovetail GENOMICS

Products & Services



Dovetail™ Genome Assembly and Scaffolding Services

- Dovetail™ Omni-C
- Dovetail™ Hi-C
- Dovetail™ Micro-C



Dovetail™ 3D Epigenetics Services

- Dovetail™ Micro-C
- Dovetail™ Hi-Chip
- Dovetail™ Pan Promoter Enrichment Panels

Dovetail™ kits

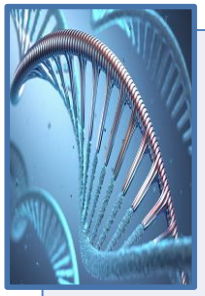
- Dovetail™ Omni-C
- Dovetail™ Micro-C
- Dovetail™ Hi-C
- Dovetail™ Hi-Chip

CELEMICS

Products & Services

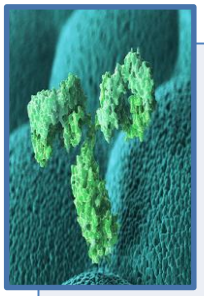
NGS Target Enrichment Panel

- Targeted DNA/RNA sequencing
- Germline, somatic mutation analysis
- Liquid biopsy analysis (ctDNA)
- Multiple gene expression analysis



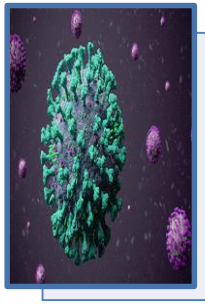
BTSeq™ Sequencing Service

- Amplicon Sequencing
- Plasmid Sequencing
- mtDNA Sequencing
- SARS-CoV-2 Viral Genome Sequencing



TrueRepertoire™ Sequencing Service

- Antibody discovery (Screening of candidate material)
- Lead antibody optimization
- Single cell DNA sequence analysis



Comprehensive Respiratory Virus Panel

- NGS characterization of 39 strains from 9 viral types

Products

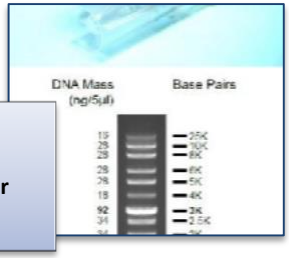
DNA Isolation Kits

RNA Isolation Kits

Virus Total Nucleic Acid Isolation Kit

Plasmid Kit

Ladder



DNA Dye

Protein Stain Kit

Protein Ladder

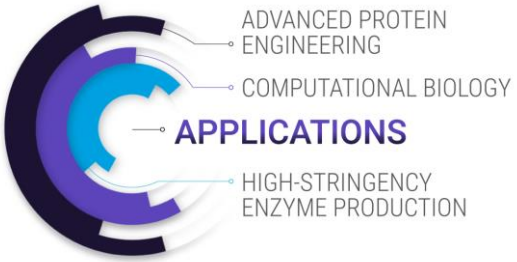
dNTPs

[Check out our PROMOTION here!]

WATCHMAKER GENOMICS

Products

Watchmaker Genomics have extensive experience with the distinct challenges in inherited disease, somatic oncology, transcriptomics, and epigenomics allows to purpose-design enzymes and workflows to support emerging applications in precision medicine, genomics, and synthetic biology. They have established an innovative, computationally driven, and vertically integrated protein engineering and production platform to create best-in-class, tailor-made solutions for the reading, writing and editing of DNA and RNA.



Equinox Library Amplification Kits

APPLICATION

- Low-frequency variant detection NGS assays, including those utilizing challenging samples such as FFPE and cfDNA
- Hybridization-capture workflows
- Single-cell analysis
- Whole-genome sequencing
- Amplicon sequencing
- RNA-Seq
- ChIP-Seq, ATAC-Seq, and associated epigenetic applications
- Illumina and non-Illumina sample preparation workflows

KEY FEATURES & BENEFITS

- Ultra-high-fidelity amplification reduces misincorporation events by up to 40% to improve overall assay sensitivity
- Even coverage of unique molecular identifier (UMI) families enables robust error correction for rare mutation detection
- Effective hot start formulation inhibits both polymerase and 3' → 5' exonuclease activities
- Highly uniform sequence coverage optimizes sequencing economy
- Efficient library amplification from a wide range of inputs (0.1 pg – 500 ng) and GC content (15% to 85%)
- Compatibility with paramagnetic beads ensures robust performance in hybridizationcapture workflows

Watchmaker DNA Library Prep Kits with Fragmentation

APPLICATION

- Somatic mutation calling and other low-frequency variant detection NGS assays
- Inherited disease sequencing
- Human whole genome sequencing (WGS)
- Whole exome sequencing (WES)
- Single cell analysis
- Metagenomic analysis
- Bulk RNA sequencing
- Viral genome sequencing
- Microbial WGS

KEY FEATURES & BENEFITS

- Up to a 90% reduction in sequence artifacts improves assay accuracy
- Improved library amplification polymerase error rates and even UMI family coverage enable rare mutation detection
- Robust fragmentation and library preparation efficiency support the use of clinically relevant sample types
- Highly tunable fragmentation delivers consistent library sizes over a wide input range (<1 ng to 500 ng) and between library batches
- Streamlined workflow delivers PCR-free libraries in under 90 minutes and scales easily to high sample numbers and automation platforms
- Uniform sequence coverage improves sequencing efficiency

BioSoft Integrators

Services

HIGH PERFORMANCE COMPUTING (HPC)

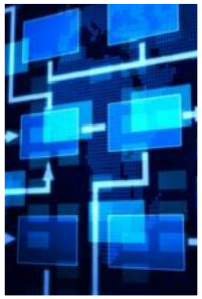
- Silver, Gold, Platinum and Custom Platform Options
- Pre-tested and pre-configured with Analysis Software
- White Glove Installation delivers a system ready to process data within 4 hours of installation

HPC Throughputs

Analysis Type	Pacbio			Illumina		
	96	192	288	96	192	288
Bacterial	24 hrs	11 hrs	6 hrs	5 hrs	3 hrs	2 hrs
Exome 40X	3.6 days	1.7 days	22 hrs	7.2 hrs	4 hrs	3 hrs
Whole Genome Human 30X	12 days	5.5 days	72 hrs	24 hrs	13 hrs	9 hrs

LABORATORY INFORMATION MANAGEMENT SYSTEM (LIMS)

- LabOptimize™ LIMS - A high-performance, flexible, comprehensive, cost-effective tracking system



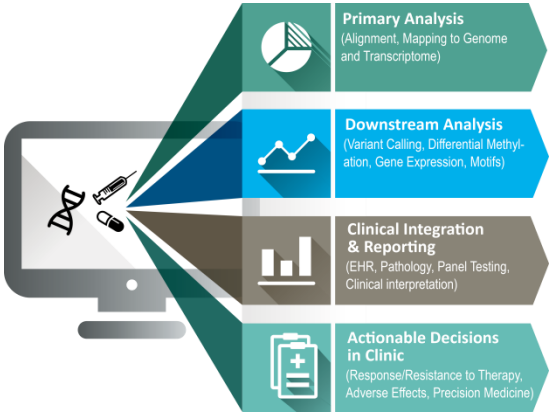
SOFTWARE DEVELOPMENT

- Providing custom software design, development and testing services for life science clients
- Software Expertise with Scientific Experience

Genome | INTERNATIONAL

Decoding *for Knowledge Discovery*

Products & Services



Genome Explorer®

A Cloud-Based Clinical Genomics platform for precision Medicine

Genomics Resources

A functional genomics resource suite integrated with genomic, exomic, transcriptomic, and proteomic data that empowers NGS research

Genomic Services

- ❖ Genomic Consulting
- ❖ NGS Data Analysis
- ❖ Custom Bioinformatics Solution

CONNECT WITH US FOR MORE DETAILS!

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