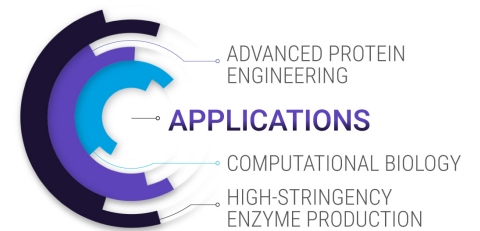## CATALYSTS FOR
YOUR INNOVATIONS

Industry-leading assays require best-in-class reagents. Watchmaker's focus on application-driven development and deep domain expertise in computational biology, advanced protein engineering, and high-stringency enzyme production enables us to address unmet needs with respect to performance, scalability, and consistency of supply.

ADVANCED PROTEIN
ENGINEERING

APPLICATIONS

COMPUTATIONAL BIOLOGY

HIGH-STRINGENCY
ENZYME PRODUCTION

KEY ADVANTAGES OF PARTNERING WITH WATCHMAKER

- **Purpose-designed enzyme systems:** Coordinated development and optimization of enzymes and associated buffers delivers high-quality performance for a given application

- **Best-in-class products:** Manufacturing and specifications are guided by high-stringency applications and multidimensional, high resolution sequencing readouts

- **Flexible customization:** Deep system insight enables quick customization of buffer formulation, enzyme concentration, and assay-specific product requirements

- **Agile scale-up:** Ease of scalability is assessed at the prototype level, and we intentionally design around parameters needed to effectively scale

- **Flexible terms:** Our terms are designed with both start-up and large organization needs in mind

ADDITIONAL BENEFITS

- ISO13485-compliant Quality Management System

- Expedited custom labeling and kitting formats, including bulk

- Guaranteed minimum shelf-life

- Single-lot shipments

- Kit-based lot testing

- Custom Certificates of Analysis

- Assured confidentiality

AVAILABLE PRODUCTS

NGS Workflow Solutions

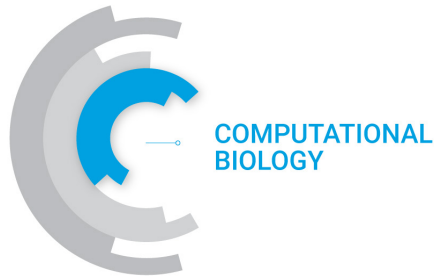- Watchmaker DNA Library Prep Kits with Fragmentation

- Equinox Library Amplification Kits

Precision Enzymes

- DNA Ligases and other DNA and RNA modifying enzymes

- Thermophyllic and mesophyllic DNA polymerases

- Reverse Transcriptases
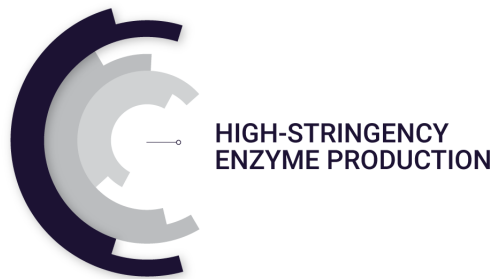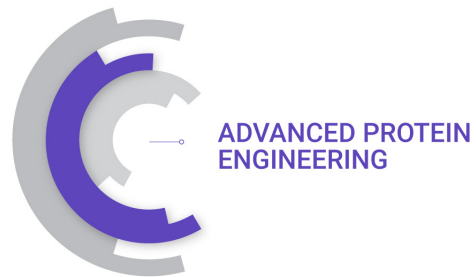
- phi 29 DNA Polymerase

READ.   WRITE.   EDIT.

OUR TECHNOLOGY: THE NEW FRONTIER OF PROTEIN ENGINEERING

Our extensive experience with the distinct challenges in inherited disease, somatic oncology, transcriptomics, and epigenomics allows us to purpose-design enzymes and workflows to support emerging applications in precision medicine, genomics, and synthetic biology. We have established an innovative, computationally driven, and vertically integrated protein engineering and production platform to create best-in-class, tailor-made solutions:

COMPUTATIONAL BIOLOGY

High-resolution, NGS-based readouts enable the unraveling of underlying molecular mechanisms and harness multidimensional Design of Experiments (DOE) data to predict enzyme behavior across a defined chemistry spectrum.

Our platform combines directed evolution with *in silico* rational design and leverages deep sequencing and machine learning to interrogate vastly more sequence space—increasing the probability of identifying variants with improved performance.

ADVANCED PROTEIN ENGINEERING

HIGH-STRINGENCY ENZYME PRODUCTION

Deep domain knowledge facilitates agile scale-up from prototype to large volume production of purpose-built enzymes, while maintaining high purity and consistent quality across lots.

TO LEARN MORE, CONTACT US AT

WATCHMAKERGENOMICS.COM/CUSTOM-SOLUTIONS
SALES@WATCHMAKERGENOMICS.COM

Precision tools for life science.

WATCHMAKER GENOMICS