## Roche Diagnostics

### Overview

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<th>in vitro Diagnostics</th>
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<th>Tissue Diagnostics</th>
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<td>Business Area</td>
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### Professional Diagnostics
- Serum work area/immunoassays and clinical chemistry
- Point-of-care testing
- Coagulation and specialty testing
- Workflow management

### Molecular Diagnostics
- Virology
- Blood screening
- Genomics/oncology
- Microbiology
- Women’s health

### Tissue Diagnostics
- Primary staining
- Advanced staining
- Workflow management
- Digital pathology

### Diabetes Care
- Blood glucose monitoring
- Insulin delivery
- Diabetes management systems

### Applied Science
- Nucleic acid DNA purification and gene expression
- Sequencing solutions
- Custom Biotech and bioreagents
Roche Applied Science

Solutions for scientific research across three areas

- Genomic Research
- Cell Analysis
- Genome Sequencing

Innovation
Partnership
Support Services

Roche

https://www.roche-applied-science.com
Supporting Africa from Africa

Roche Support on the continent
Committed to Sustainable Development in Africa

AmpliCare
HIV Monitoring Access Program

Roche Scientific Campus
Empowering Through Knowledge
SPECIFIC SOLUTIONS
Sample Handling and NA Extraction Solution

**Primary Sample Handling**

- Hamilton MagNA STARlet

**Purification RNA/DNA**

- MagNA Pure 96

**Aliqoting**

- Hamilton PSU STARlet

**Storage**

- -80 Freezers or Liquid Nitrogen

Automated Sample Workflow

Automated Data Workflow
Targeted Re-Sequencing with Sequence Capture

Get only your relevant parts from any genome
NimbleGen SeqCap EZ Libraries
Capture any target from <100Kb to 100Mb and beyond

• **2.1 Million** Long DNA (robust) oligos
  - Highest number for high coverage, great uniformity

• Easy, Solution based, error-proof
  - qPCR controls, multiplex capable (pre or pc)

• Best performing capture
  - Discovers more mutations than competitors
### SeqCap EZ Discovery Research Products

**Comprehensive Exome and UTR designs**

<table>
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<tr>
<th>Products</th>
<th>Design Size</th>
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<tbody>
<tr>
<td>SeqCap EZ Exome v2.0</td>
<td>44Mb</td>
</tr>
<tr>
<td>SeqCap EZ Exome v3.0</td>
<td>64Mb</td>
</tr>
<tr>
<td>SeqCap EZ Exome +UTR</td>
<td>96Mb</td>
</tr>
<tr>
<td>SeqCap EZ Exome Plus</td>
<td>Up to 114Mb</td>
</tr>
<tr>
<td>SeqCap EZ UTR only</td>
<td>50Mb</td>
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Integrated Genomic Research Solutions

Working with RNA
- Sample preparation
- Nucleic Acid Purification
- cDNA Synthesis
- Primer Probe Design
- RT-PCR

Working with DNA
- Sample preparation
- Nucleic Acid Purification
- Primer Probe Design
- PCR

Cloning and protein expression
- Vector preparation
- Insert preparation
- Ligation
- Transformation & Screening
- Protein expression & purification

Sequencing

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