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# **KAPA HyperCap Workflow**

*The answers of tomorrow, today*

A woman with dark curly hair, wearing a white lab coat, stands in the center of the frame. She has her hands in her pockets and is looking towards the camera with a slight smile. The background is a bright, clean laboratory environment. On the right side, there is a large, stylized green molecular structure graphic composed of dots and lines. The text "Enrich DISCOVERY" is overlaid on the left side of the image, with "Enrich" in a black serif font and "DISCOVERY" in a bold, green, sans-serif font.

*Enrich*  
**DISCOVERY**

# Uncover the answers of tomorrow, today

## Discover more from every sample

**KAPA HyperCap Workflow** is the latest innovation from Roche's continuously evolving NGS sample prep portfolio. We're bringing industry-leading sequencing efficiency to Target Enrichment and Library Preparation workflows to elevate translational and clinical research. It's an area in which we've been a pioneer for over a decade, combining a deep understanding of NGS Target Enrichment with proven and demonstrated design expertise.

Roche is dedicated to accelerating clinical research, streamlining workflows and expanding assay menus to unlock access to genomic data and lower barriers for routine use. By enhancing sequencing efficiency, you unlock the true potential of your starting material and can spend more time making a difference.

## A revolutionary approach to NGS sample prep

KAPA HyperCap Workflow combines all the reagents and accessories required for Library Preparation and Target Enrichment into a single, automated workflow to streamline your next discovery.

- ✓ Proven design expertise
- ✓ Superior capture uniformity
- ✓ Deeper target coverage
- ✓ Access the content that matters

With the combined expertise of Roche and the KAPA portfolio, you can now amplify your research with next-generation quality, fewer manual steps, and simplified ordering and support from a single trusted vendor.

“*Seamless process to setup the workflow in our lab. The hybridization washes are easier and more streamlined than Supplier's Z.*”

KAPA HyperChoice Probes early access customer



## Detect variants efficiently and confidently

Across the globe, laboratories are facing constant pressure to do more with less. Our holistic sample prep portfolio combines superior capture uniformity and streamlined workflows for higher cost efficiency.

## Eliminate blind spots from your targets

Wave good-bye to speculation. Roche's renowned probe-design algorithm is now at your fingertips with the HyperDesign Tool. An intuitive interface and 24/7 expert designer support let you more easily optimize custom designs to access difficult genomic regions and achieve more even coverage of your targets from the get-go.

## Discover greater efficiency with automatable workflows

Minimize hands-on time and optimize turnaround times with a streamlined, automation friendly NGS sample prep workflow. Using high-performing catalog or custom designs and improved automation, you can sequence less and discover more.

## Automatable fragmentation and library preparation in a single tube

Convenience meets control with our KAPA library prep kits. Choose between mechanical shearing or enzymatic fragmentation. This streamlined Library Preparation protocol reduces preparation time and improves consistency. The novel, single-tube chemistry demonstrably improves library construction efficiency, particularly for challenging samples such as FFPE tissue and cell-free DNA.

# Master the art of capturing both content and efficiency

Excellence in probe design, manufacturing technology and workflow optimization is the new status quo in targeted sequencing. Whether using KAPA Custom Probes or our new exome, KAPA Target Enrichment probes are designed to elevate your variant detection capabilities, reduce sequencing costs, and increase sample throughput.

## Trust your research to KAPA HyperExome Probes

Maximize sequencing efficiency with a compact (43 Mb), actionable exome.

### **Proven and innovative probe design expertise:**

Now combined with high fidelity KAPA Target Enrichment probes

### **A high-performing exome delivers confident results:**

- Greater than 78% of reads on-target
- 98.7% sensitivity for SNP detection
- 99.7% specificity for SNP allele classification

### **Broad database coverage:**

Including RefSeq, CCDS, Ensembl, CENCODE and ClinVar (with only 43Mb capture target)

### **Save sequencing costs:**

Finest balance between high specificity (78% reads on-target) and superior uniformity (>90% of bases between 0.5x and 2x of median coverage)

### **Safely track your samples:**

Know where samples are throughout the entire workflow by intrinsically targeting 387 sample tracking SNPs

*“Decrease of duplicate rate, improvement of on target bases rate and coverage uniformity, deeper mean coverage with the same raw data.”*

(KAPA HyperChoice Probes early access customer)





## Enrich more completely with KAPA HyperChoice and KAPA HyperExplore Probes

Roche's proprietary algorithms and renowned expertise in probe design allow researchers to access challenging genomic regions and enable targeted enrichment of custom-defined regions of up to 200 Mb.

### Identify your target

- Human genomes using KAPA HyperChoice
- Non-human genomes using KAPA HyperExplore

### Unlimited customization

Trust your unique research to the HyperDesign Tool

### Take your research to the next level

Achieve significantly fewer PCR duplicates, higher uniformity, and better target coverage

## Now, you can focus on what really matters

KAPA HyperCap Workflow opens the next chapter in the evolution of sequencing innovation. With a reduced reliance on manual steps, faster and more predictable turnaround times, plus accurate and reliable results to meet your demand, you can lead the way with genuine, relevant, and influential research.

### Uncover efficiencies across your Target Enrichment and Library Preparation workflows with KAPA HyperCap Workflow.

#### Do more with less

Process more samples with less effort using our advanced hybrid capture technology

#### Push the boundaries of your research

Target difficult genomic regions with a superior probe design algorithm

#### Develop your own designs

Create your ideal design with the intuitive and user-friendly HyperDesign Tool

#### Improve workflows

Facilitate flexible and more efficient library construction for your research

#### Maximize your effort

Minimize hands-on and turnaround times with automated workflows

*Talk to your Roche representative to upgrade your workflow today.*