

What is the KAPA HyperPETE Workflow?

KAPA HyperPETE Workflow is the latest innovation in the Roche NGS target enrichment portfolio - specifically designed to target panels up to 250KB. The single-day workflow allows for a fast and efficient approach to accelerating discovery—in somatic oncology research and beyond. With the support of a robust and innovative secondary analysis solution, this best-in-class workflow is uniquely equipped to help you deep-dive into new discoveries.

Redefine efficiency and precision with:



A streamlined and automatable workflow that does not compromise performance



Improved sensitivity & specificity for unparalleled confidence in results



Easier detection and wider coverage across multiple variants and sample

C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T
 G T A C G T A C **The discovery is in the details** A C G T A C G T A
 T A C G T A C G T A C G T A C G T A C G T A C G T A C

1

Biotinylated Capture Extension

Biotinylated target-specific capture primers hybridize to target DNA and are extended by a DNA polymerase.



2

Streptavidin bead capture

Utilizing paramagnetic streptavidin beads, targeted DNA is captured, and off-target fragments are washed away.



3

Release primer hybridization

Target-specific release primers hybridize to target DNA upstream of capture primers.



4

Release extension

Release primers are extended and support release of target DNA.



5

PCR of enriched library

Released target DNA is amplified and prepared for sequencing.



Flexibility by design

Specialized technology can help you meet the growing needs of your lab

KAPA HyperCap Workflow

250KB and beyond



Overnight hybridization



Biotinylated Capture Probe

KAPA HyperPETE Workflow

Up to 250KB



2x ~30-minute hybridization



Biotinylated Capture Primer, non-biotinylated Release Primer

Tomorrow's lab, today

With our advanced and flexible sequencing solutions, more labs can better understand mutations in the human genome and expand the limits of discovery. Through groundbreaking research, we hope to uncover new methods for diagnosis helping to make personalized healthcare a reality.

