

# Sequencing Secondary Analysis



## Secondary Analysis Solutions for Your Target Enrichment Sequencing Data with DNAnexus®

Roche Sequencing now provides its secondary analysis solution on DNAnexus for **somatic (DNA and RNA), germline, and longitudinal mutation analysis (LMA)**. These RUO (Research Use Only) pipelines support SNVs (single nucleotide variants), Indels (insertions, deletions), CNVs (copy number variants), fusions (from RNA), MSI (microsatellite instability) detection and seamlessly integrate with KAPA Custom and Catalog panels using KAPA HyperCap or KAPA HyperPETE workflows.

## Simplified Bioinformatics Analysis Beyond Written Protocols

The Roche Sequencing's secondary analysis solutions white-papers are open source protocols now available on DNAnexus in a convenient graphical user interface (GUI). Users can easily perform variant calling without needing advanced bioinformatics expertise or IT setup. Additionally, users can take advantage of the following benefits:

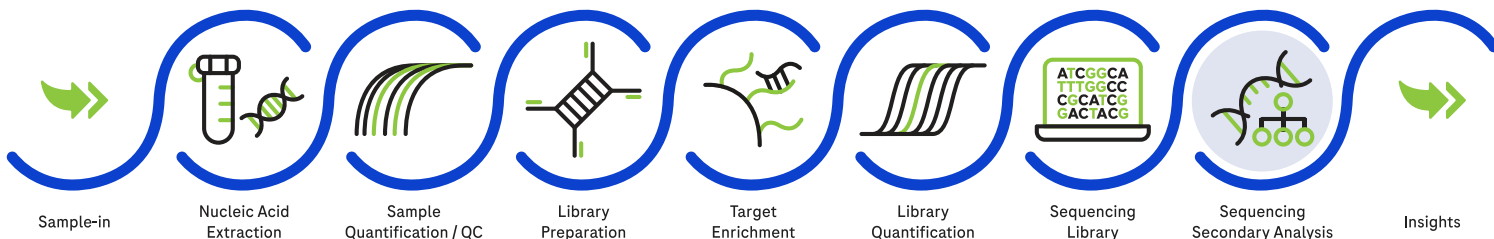
- **Robust data visualization:** Share data, collaborate, and troubleshoot with ease.
- **Real-time collaboration:** Summarize insights quickly with various visualization tools like MultiQC\*, IGV\*\* and more.
- **Pre-configured repository:** Convenient access to analysis resources like:
  - reference genome files (hg19 and hg38)
  - design files (Roche catalog and Design Share panels)
  - Digital Proof of Principle (DPoP) data for Roche catalog panels and more, like KAPA HyperCap Design Share NHL Panel
  - custom workflow files (STARfusion for exon skipping, Configuration files for summary tools and others)

\* MultiQC is a reporting tool that parses results and statistics from bioinformatics tool outputs, such as log files and console outputs. It helps to summarise experiments containing multiple samples and multiple analysis steps. For more details visit <https://seqera.io/multiqc/>

\*\* The Integrative Genomics Viewer (IGV) is a visualization tool to simultaneously integrate and analyze multiple types of genomic data. For more details visit <https://igv.org/>

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Constantly evolving, efficient, and complete solutions



# Benefits of Roche Secondary Analysis Pipelines on DNAnexus Platform

- Easy to use** Seamless and evolving GUI to Roche target enrichment secondary analysis workflows
- Convenient access** Cloud based platform to provide access without IT infrastructure
- Flexible** Minimal commitment and multiple modes of usability for unique user needs
- Low setup effort** Start fast with fast setup and no upfront cost

## Pathways to Access



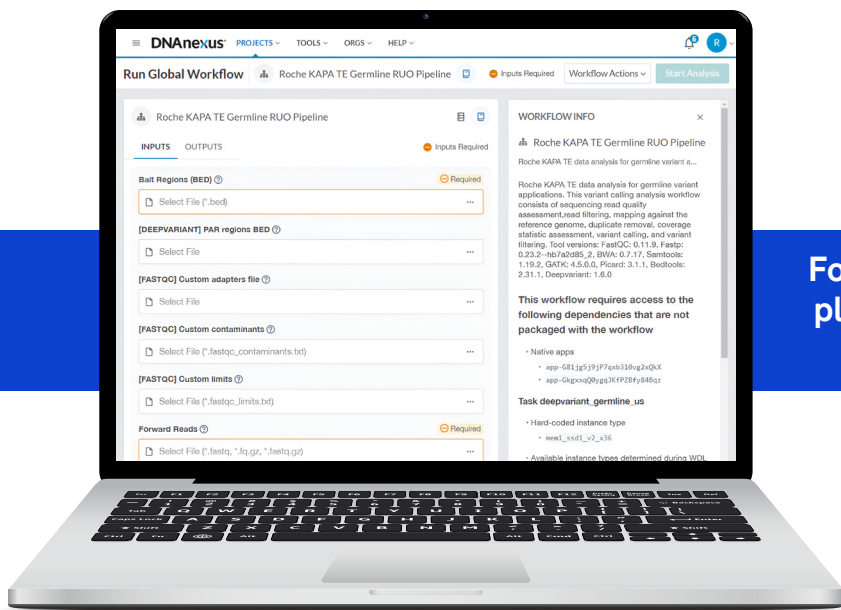
### PayGo Account:

- Low-throughput and new users
- Quick setup with no upfront cost or annual commitment



### License Account:

- Organizations with high-throughput needs
- Annual contracts offering additional options



For more on product access, support or pricing, please reach out to [support@dnanexus.com](mailto:support@dnanexus.com) or contact your local Roche representative.

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