

# Illumina Workflow Design and Evaluation Service

Collaborate with experts at Illumina Solutions Centers to evaluate Illumina technology



Evaluate Illumina sequencing and microarray platforms using researcher-supplied samples



Leverage Illumina expertise, workflows, and laboratories to assess Illumina platforms and solutions



Review Illumina sequencing or microarray data to inform purchasing decisions and accelerate implementation

## Introduction

When designing next-generation sequencing (NGS) or microarray experiments, researchers are confronted with important decisions related to sample preparation, sequencing systems, and data analysis methods. The Illumina Workflow Design and Evaluation Service helps to address these questions by providing access to the Illumina portfolio of Research Use Only (RUO) products and expert-designed workflows at Illumina Solutions Center locations around the world (Figure 1).

## Collaborate with Illumina experts from sample to data

The Illumina Workflow Design and Evaluation Service begins with a consultation to determine the most appropriate sample-to-data solution based on specific research goals. The experts at Illumina Solutions Centers work collaboratively with researchers to define the

experimental parameters, including number of samples, required controls, library preparation protocol, and data deliverables to ensure the best performance for their planned NGS experiments (Figure 2).

Researcher-submitted samples may first undergo a quality control (QC) assessment. Samples are then processed through the selected NGS or microarray workflow with additional QC as applicable. Depending on analysis requirements, the data generated can be further analyzed using applicable software solutions from the Illumina Connected Software product portfolio.\*

Researchers can also access post-service consultations to review the entire sample-to-answer workflow and discuss steps to successfully implement these workflows in their laboratories. All deliverables, including generated data and any analysis reports, are provided through BaseSpace Sequence Hub or an external hard drive.

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\* Depending on analysis requirements, an additional Informatics professional service may be required.



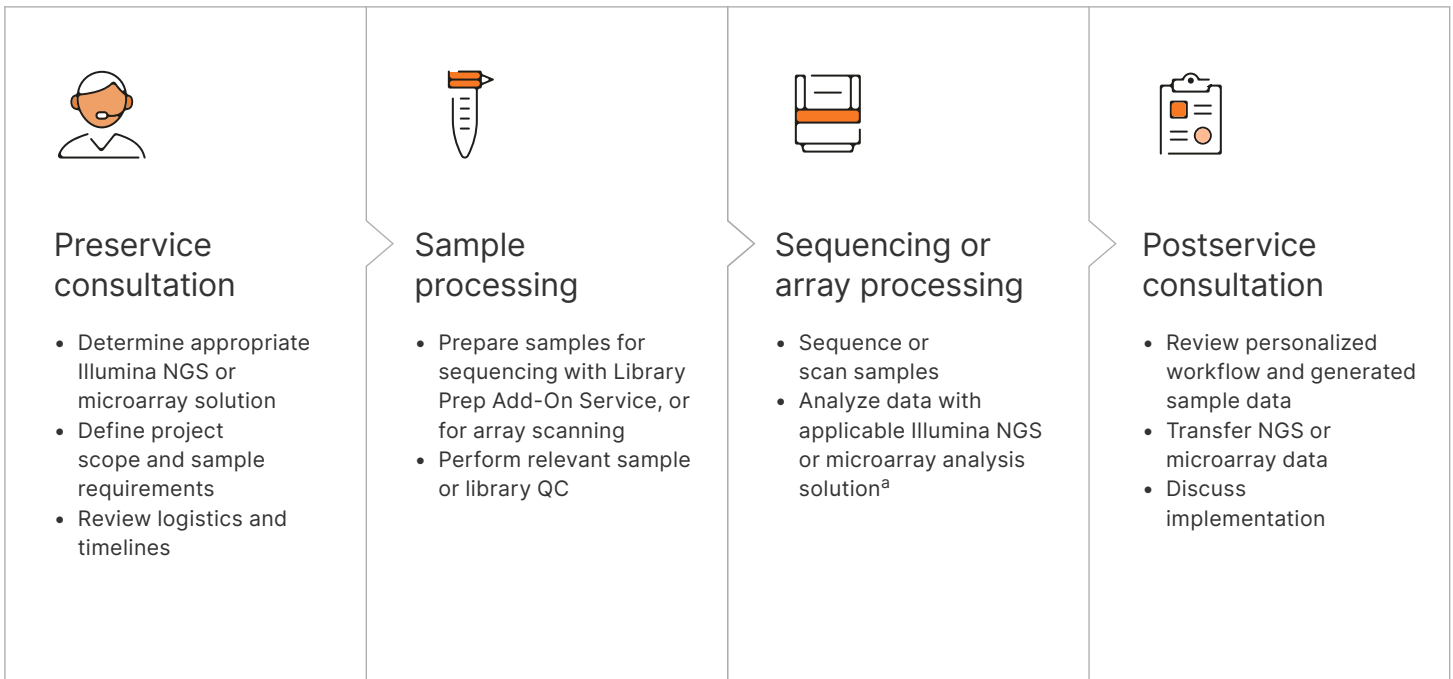


Figure 2: The streamlined Illumina Workflow Design and Evaluation Service process provides rapid data delivery for Illumina sequencing system or application.

a. Depending on analysis requirements, additional informatics professional service may be required.

## Evaluate Illumina technology with researcher-submitted samples

Rather than relying on data from common reference samples, the Illumina Workflow Design and Evaluation Service generates data from samples provided by researchers. Sequence-ready DNA libraries prepared using custom or third-party library preparation kits can also be provided for researchers interested in evaluating specific Illumina sequencing platforms. Following the service, researchers can make a more appropriate comparison between data generated from Illumina's NGS or microarray workflows and their current methods.



To begin a consultation, inquire about the Illumina Workflow Design and Evaluation Service, or to confirm availability in your region, contact your local Illumina account manager.

## Summary

Establishing an optimized sample-to-answer workflow is critical during the implementation and startup phase of integrating new NGS or microarray technology. With the Illumina Workflow Design and Evaluation Service, researchers can evaluate workflows using their own samples with expert support to accelerate the journey towards successful genomics research.

## Ordering information

Product	Catalog no.
NovaSeq™ 6000/X System Sequencing Only Service	20016091
NextSeq™ 550/1000/2000 Sequencing Only System Service	15067736
MiSeq™ i100 System Sequencing Only Service	20132561
Core Library Prep Add-on Service	20146664
Intermediate Library Prep Add-on Service	20146665
Advanced Library Prep Add-on Service	20146666
Microarray Service	20013962

Service availability and scope of service depends on the Illumina Solutions Center location.  
For Sequencing Only Services, pricing is based on a single flow cell run.  
Microarray Service is for up to 96 samples.



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