

Animal & Plant Whole Genome Sequencing

1. Sample Requirements

Library Type	Sample Type	Amount (Qubit®)	Volume	Concentration	Purity (NanoDrop™)
≤ 500 bp Insert DNA Library	Genomic DNA	≥ 0.2 µg	≥ 20 µL	≥ 20 ng/µL	OD260/280 = 1.8~2.0, no degradation, no contamination
	Genomic DNA (PCR-free except 350 bp)	≥ 5 µg	≥ 20 µL	≥ 30 ng/µL	
	Genomic DNA (PCR-free low input-350 bp)	≥ 1.5 µg	≥ 20 µL	≥ 20 ng/µL	
	Mitochondrion/ Chloroplast DNA	≥ 0.8 µg	≥ 20 µL	≥ 30 ng/µL	

Remark: This sample requirement is for reference only. If you have any questions, please consult your local sales or Novogene support for detailed information.

2. Sequencing Parameters

Platform	Illumina NovaSeq 6000
Read length	Paired-end 150
Sequencing depth	SNP/InDel Detection--over 10× SV/CNV Detection--over 20×

Remark: Detailed sequencing parameters can be consulted with your local sales or Novogene support.

3. Data Analysis Contents

Standard Analysis
Data quality control: filtering reads containing adapter or with low quality
Alignment with reference genome, statistics of sequencing depth and coverage
Variant (SNP, InDel) calling, annotation and statistics
Advanced Analysis
SV calling, annotation and statistics
CNV calling, annotation and statistics

Remark: Detailed analysis contents can be consulted with your local sales or Novogene support.