

GENOMICS

Application	Sample Requirements	Read Length ^{&}	Average Output ^{&}	Platform	Sample Minimum*	Deliverables
Whole Genome Sequencing	Integrity: \geq 12 kb Amount: \geq 1 μ g Volume: \geq 20 μ l	2 x 150 bp	30X coverage	NovaSeq	4	Raw SNP calling results (.vcf file), raw INDEL calling results (.vcf file), MultiQC report, FASTQ files
Whole Genome Sequencing for FFPE DNA	Integrity: \geq 1500 bp Amount: \geq 1 μ g Volume: \geq 20 μ l	2 x 150 bp	30X coverage	NovaSeq	4	
Whole Exome Sequencing	Integrity: \geq 12 kb Amount: \geq 1 μ g Volume: \geq 20 μ l	2 x 150 bp	120X coverage	NextSeq	8	
				NovaSeq	16	
Whole Exome Sequencing for FFPE DNA	Integrity: \geq 1500 bp Amount: \geq 1.5 μ g Volume: \geq 25 μ l	2 x 150 bp	120X coverage	NextSeq	8	
				NovaSeq	16	

* Turnaround time of 12-15 business days for library preparation and sequencing if sample minimum is met. If sample minimum is not met, please allow for extra lead time. Alternatively, samples may be processed sooner for an additional cost. Contact genomics@cshs.org for more information.

As measured with a fluorescent dye, such as Qubit or QUANT-iT PicoGreen.

§ For alternate read lengths or outputs, please contact genomics@cshs.org.