I. Sample	Requirement	.5				
Library	Sample			Concentrati	RNA Integrity Number	Purity
Туре	Туре	Amount	Volume	on	(Agilent 2100)	(NanoDrop)
	Total RNA	≥ 0.4 µg	≥ 20 µL	≥ 20 ng/µL	≥ 6.8 (Animal),	6,
Eukaryot ic RNA- Seq	Total RNA (Blood)	≥ 0.8 µg			with smooth base line	
	Total RNA (Single Cell)	≥ 100ng	≥ 20 µL	≥ 10 ng/µL	≥ 6.3 (Plant and Fungus), with smooth base line	
(cDNA library)	Amplified cDNA (double- stranded)	≥ 100ng	≥ 20 µL	≥ 20 ng/µL	Fragments between 400bp and 5000bp with main peak at ~2000bp	OD260/280 = 1.8-2.2; OD260/230 ≥ 1.8; No degradation,
Eukaryot ic RNA- Seq (strand specific library)	Total RNA	≥ 0.8 μg	≥ 20 µL	≥ 20 ng/μL	 ≥ 6.8 (Animal), with smooth base line ≥ 6.3 (Plant and Fungus), with smooth base line 	No contamination

1. Sample Requirements

For total RNA less than 100ng, please consult us for ultra-low input library solutions.

2. Sequencing Parameters

Platform	Illumina NovaSeq 6000
Read length	Pair-end 150
Recommended	≥20 million read pair per sample for species with reference genome;
Sequencing Depth	≥50 million read pairs per sample for species without reference genome (de
	novo transcriptome assembly projects)
Data quality	Guaranteed Q30≥80%, exceeding Illumina's official benchmark of ≥75%
Turnaround time	Within 2-3 working weeks from library construction verification to data
	releasing without bioinformatic analysis. (depending on the sample size);

3. Data Analysis Contents

ſ	Standard analysis
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Data filtering

Transcriptome assembly & Gene functional annotation (only for species without reference genome)

Mapping to reference genome/assembled genome

Gene expression quantification & Differential expressed genes profiling & Enrichment analysis

Protein-Protein Interaction (PPI) analysis

Transcription factors functional annotation analysis

Oncogene functional annotation analysis

SNP & InDel analysis

Alternative splicing analysis

Fusion gene prediction (Only for tumor sample and cancer cell line)