

## **NGS sample QC criteria (RNA)**

The values given below are for reference only and may change at any time without notice. For more information, please contact your MacroGen Europe representative.

### **1. Illumina sequencing**

#### **1.1 Total RNA**

<i>Library prep kit</i>	<i>Total RNA (µg)</i>	<i>RIN</i>	<i>Additional criteria</i>
Illumina stranded total RNA with Ribo-Zero Plus	0.500	7	a
iR-Profile short read library	0.050	7	a
SMARTer stranded RNA with Ribo-Zero	0.100	7	a
SMARTer universal low RNA with Ribo-Zero	0.100	7	a
TruSeq stranded total RNA with NEB microbe kit	0.500	7	a
TruSeq stranded total RNA with Ribo-Zero	0.500	7	a
TruSeq stranded total RNA with Ribo-Zero Globin	0.500	7	a
TruSeq stranded total RNA with Ribo-Zero Gold	0.500	7	a
TruSeq stranded total RNA with Ribo-Zero Plant	0.500	7	a

#### **1.2 mRNA**

<i>Library prep kit</i>	<i>Total RNA (µg)</i>	<i>RIN</i>	<i>Additional criteria</i>
Nextera DNA XT (cDNA input)	0.001		
SMARTer stranded RNA (poly A selection)	0.050	7	a
SMARTer ultra low input RNA	0.010	7	a
SMARTer universal low RNA	0.050	7	a
SureSelect RNA Direct	0.100		b
SureSelect RNA Direct (FFPE input)	0.200		b
TruSeq Nano DNA (cDNA input)	0.100		
TruSeq RNA Access	0.100		b
TruSeq RNA Access (FFPE input)	0.200		b
TruSeq stranded mRNA	1.000	7	a
TruSeq stranded mRNA (microbe)	3.000	7	a

#### **1.3 Small RNA**

<i>Library prep kit</i>	<i>Total RNA (µg)</i>	<i>RIN</i>	<i>Additional criteria</i>
NEBNext small RNA	1.000	7	a
NEBNext small RNA (exRNA input)	0.010		
NEBNext small RNA (smRNA input)	0.100		
QIAseq miRNA	0.500	7	a
QIAseq miRNA (exRNA input)	0.010		



QIAseq miRNA (smRNA input)	0.100		
SMARTer small RNA	0.050	7	a
SMARTer small RNA (exRNA input)	0.010		
SMARTer small RNA (smRNA input)	0.010		
TruSeq small RNA	3.000	7	a
TruSeq small RNA (exRNA input)	0.010		
TruSeq small RNA (smRNA input)	0.100		

#### 1.4 Modified libraries

<i>Library prep kit</i>	<i>Total RNA (µg)</i>	<i>RIN</i>	<i>Additional criteria</i>
Metagenome amplicon (cDNA input)	0.100		

#### 2. PacBio sequencing

<i>Library prep kit</i>	<i>Total RNA (µg)</i>	<i>RIN</i>	<i>Additional criteria</i>
Sequel I Iso-Seq Express template prep	0.600	7	
Sequel II Iso-Seq Express template prep	1.200	7	a

#### Notes

- a. rRNA ratio should be above 1
- b. DV200 should be above 50%

RIN: RNA integrity number