

# Macrogen Next Generation Sequencing Sample Submission Guide

We, Macrogen Inc., have equipped a variety of Next Generation Sequencing platforms(454 GS-FLX Titanium, Illumina GA IIX, SOLiD III) which enable us to enrich genome research. With these cutting-edge platforms, Macrogen offers high-throughput DNA sequencing service at very short time. We would do our best to provide you the best solution that covers current genomic research and large-scale projects.

## Sample Requirements

### DNA / RNA Quality

#### a) DNA

“All DNA sample(s) requirement...”

- double-strand, non degraded, and containing no particulate matter
- purified by column or gel purification protocols
- A260/280 ratio of 1.8 or above

#### b) RNA

All RNA sample(s) requirement...

- 2100 Bioanalyzer RNA integrity Number (RIN) > 8
- 28S rRNA : 18S rRNA = 2:1 ratio

### DNA / RNA / Tissue Quantity

#### a) 454 GS FLX (in EB Buffer)\

HMW(>1.5kb)	LMW(70~500bp)	Paired End
5~10ug	5ug	5~10ug

\* All samples except for LMW( $\geq 50$ ng/ul) should be provided at a concentration of  $\geq 100$ ng/ul  
In case of cDNA synthesis, tissue(>10g) or total RNA (>1mg) would be required.

#### b) Illumina Genome Analyzer ( in EB buffer)

Sample Type	Total Quantity
gDNA (for single/paired-end run)	5ug (recommended)
ChIPed DNA	10ng
mRNA sequencing-total RNA	1~10ug
mRNA sequencing-mRNA	100ng

small RNA sequencing-total RNA	1~10ug
small RNA sequencing-small RNA	entire fraction of small RNA purified from 1~10ug of total RNA

## Contact

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