

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(≥ 50 ng/ul) should be provided at a concentration of ≥ 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 |

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