Large-scale Sequencing Sample Submission

We accept sample in the form of Genomic DNA, PCR fragments, and plasmid DNA for large-scale DNA sequencing project. The sample submission requirements are listed in the table below:

1. We accept plasmid DNA, PCR DNA, purified or unpurified in both 96-well and 384-well plates.
2. Seal the plates well to prevent evaporation and cross-contamination.
3. Freeze the plates at -80°C and ship in dry ice.
4. The amount of template and primer required in each reaction is shown below.

Template	Concentration	Volume/Reaction	Solvent
Genomic DNA	50-100 ng/ul	≥5 ul	ddH$_2$O or 10 mM Tris (without EDTA)
PCR Fragments	20 ng DNA/100 bp	≥8 ul	
Plasmid DNA	200 - 500 ng/reaction	≥8 ul	

Note:

- Our large-scale sequencing service currently accepts orders of 192 samples or more.
- For combined submissions of templates and primers, the templates must meet our sample submission requirements, and the primers must be submitted in quantities of at least 20 µl (10 pmol/µl or 10 ng/µl) each.
- Standard primers [M13(-21), M13 rev, SP6, T7, T3, BGH, GL2, RV3, NCMV30, CCMV24] are available at no extra charge.

Table for Submission Guideline

Sample Type/Format	Sample Requirements	Comments/Additional Requirements
Bacterial agar plates	25 cm x 25 cm tray 200 ml LB agar	1,500-2,000 colonies/lawn are required (no more than 3,000/lawn)
96-well bacterial cultures	200 ul media 10% final glycerol concentration	Cultures grown in LB media and incubated at 37°C for 12 hours static growth. Templates containing the Zeocin-resistant gene should be grown in low salt LB media
384-well bacterial cultures	90 7l media 10% final glycerol concentration	Cultures grown in LB media and incubated at 37°C for 12 hours static growth. Templates containing the Zeocin-resistant gene should be grown in low salt LB media
PCR products	96 or 384-well full skirted plates Minimum volume: 20 ul Conc.:15-25 ng/ul	Samples should be normalized across the plate
Primers	Minimum of 5 nanomoles for384 wells reads or fewer	Primers should be ~20 bp in length, with Tm between 56°C and 62°C. Primers should be resuspended in dH2O (not TE buffer)
Primers - plate format for sequencing of PCR products	25 ul of 3 uM primer/well	Primers should be plated in the primer plates according to clone layout

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