

SAMPLE SUBMISSION GUIDE

For Custom DNA Sequencing in Tube Format

Universally Valid

- Use 1.5ml safe-lock tubes (e.g. from Eppendorf) for your samples and primers
- Please do not tape or wrap the tubes with parafilm
- DNA should be sent in a total volume of 15µl (doubled distilled water or 5mM Tris-HCl [pH 8.0 – 9.0])
- Metal sample boxes and padded envelopes are available for safety shipment

Sequencing Primers

- A wide choice of standard primers are available free of charge
- Custom primers can be ordered for synthesis along with your sequencing order
- Own primers can be sent with your samples
 - In single tubes using our barcode labels
 - Concentration: 2pmol/µl in a min. volume of 15µl (corresponds to an amount of 30pmol)

Value Read Service

- Purified plasmid DNA
- Un-purified and purified PCR products
- Plasmid clones (*E.coli* clones as stab- or glycerol cultures)

Concentration

- Plasmid DNA: 50-100ng/µl
- Purified PCR products:

150-300bp:	2ng/µl
300-1000bp:	5ng/µl
>1000bp:	10ng/µl
- The amount has to be doubled for **un-purified products**
- Use one tube per sequencing reaction for purified DNA samples

Premixed DNA with Primers

- Purified plasmid DNA: 50-100ng/µl in a minimum volume of 15µl incl. 15pmol primer
- Purified PCR products:

150-300bp:	2ng/µl; total vol. of 15µl incl. 15pmol primer
300-1000bp:	5ng/µl; total vol. of 15µl incl. 15pmol primer
>1000bp:	10ng/µl; total vol. of 15µl incl. 15pmol primer

Ready to Load Service

- Use ABI Big Dye Terminator Kit (v3.1)
- Big Dye volume per reaction should not exceed 1µl
- Total reaction volume of 10-20µl
- Shipment of samples on dry ice is strongly recommended

Sequencing Service à la Carte

- Un-purified and purified PCR products
- Purified plasmid DNA and plasmid clones (*E.coli* clones as stab- or glycerol cultures)
- Large constructs (BACs, PACs, cosmids, fosmids)
- Genomic DNA

Concentration

- Purified plasmid DNA: 50-100ng/µl, minimum 1µg per reaction
- Purified PCR products:

150-300bp:	2ng/µl
300-000bp:	5ng/µl
>1000bp:	10ng/µl
- The amount has to be doubled for **un-purified PCR products**
- Large Construct DNA: 200-1000ng/µl, minimum 4µg per reaction
- Genomic DNA: 5-50ng/µl, minimum 200ng per reaction

Walking Services & GLP-Compliant Sequencing

- Purified plasmid DNA
- Un-purified and purified PCR products
- Plasmid clones (*E.coli* clones as stab- or glycerol cultures)

Concentration

Plasmid DNA:	Minimum 100ng/µl
PCR products:	Minimum 10ng/µl

Total Amount

- | | | |
|------------------------------------|---------------|-------------------------------|
| • Single Strand Sequencing | Plasmid DNA: | Minimum 1µg/1kb insert |
| | PCR products: | Minimum 100ng/1kb PCR product |
| • Double Strand Sequencing | Plasmid DNA: | Minimum 2µg/1kb insert |
| | PCR products: | Minimum 200ng/1kb PCR product |
| • 4fold Coverage Sequencing | Plasmid DNA: | Minimum 4µg/1kb insert |
| | PCR products: | Minimum 600ng/1kb PCR product |
- If available, please send a reference sequence in electronic form