

1. PREMIXED SEQ

Your DNA samples are already available as a sample-primer mix. Both 96-well plates and 8-well strips can be sent in. Important: Please use only lid strips and no foils to seal the plates or strips.

You will receive the automatically processed sequence data (.ab1 and .seq files) usually on the same day, at the latest on the following working day after sample receipt.

- **Preparation**

- eluted / dissolved in water, never in TE
- Samples & primer premixed with lid, no foil or parafilm.

Template			Primer		Pre-Mixed
Sample Type	Concentration	Volume	Concentration	Volume	Total Volume (DNA + Primer)
PCR Fragment Purified	5ng/100bp/ μ l	5 μ l	5 pmol/ μ l	5 μ l	10 μ l
Plasmid	100-200ng/ μ l	5 μ l	5 pmol/ μ l	5 μ l	10 μ l

2. SINGLE PASS QUICKVIEW (SP-Q)

Your DNA samples are sequenced with standard vector primers or customer primers. You receive the automatically processed sequence data. Depending on the template quality, read lengths of up to 900 nt per run can be generated. The results (.ab1 and .seq files) are usually available on the same day, at the latest on the following working day after receipt of the sample.

- **Preparation**

For this service we need the samples and primers in separate reaction tubes or on a plate.

- eluted / dissolved in water, never in TE
- Samples & Primer separate, in colorless Cups
- Standard-Vector Primer: available and free of charge @ 4base lab
- Samples & primers are stored for up to 4 weeks

Sample Type	Template		Primer	
	Concentration	Volume per (1-4) Run	Concentration	Volume per (1-4) Run
PCR Fragment Purified/Unpurified	5ng/ μ l/100bp	20 μ l	5 pmol/ μ l	10 μ l
Plasmid	100-300ng/ μ l	20 μ l	5 pmol/ μ l	10 μ l
BAC/PAC/Cosmid	200-500ng/ μ l	20 μ l	10 pmol/ μ l	10 μ l

3. SINGLE PASS STANDARD (SP-S)

Your samples (DNA) are sequenced with standard vector primers or customer primers. The sequence data will be edited afterwards. In case of laboratory-related problems, the sequencing will be repeated free of charge. The results (.ab1 and .seq files) are usually available on the same day, at the latest on the following working day after sample receipt.

- **Preparation** see (SP-Q)

4. SINGLE PASS STANDARD-DIFFICULT TEMPLATE (SP-SM22)

Do you have difficult DNA templates with high GC content, complex secondary structures, long homopolymer regions, palindromic sequences or sequences with tandem repeats? No problem! Special modifications are used for sequencing your samples. Standard primers as well as customer primers can be used. The obtained sequence data are edited manually. Automatic resequencing in case of unsuccessful sequencing is free of charge. The results (.ab1 and .seq files) are usually available on the same day, at the latest on the following working day after receipt of the sample.

- **Preparation** see (SP-Q)

5. PRIMER WALKING (PW1 and PW2)

For highest accuracy in sequencing of long DNA segments. Starting from the first sequence reaction with standard vector primers, additional primers are synthesized and used in such a way that one strand of the DNA template (PW1) / both DNA strands of the template (PW2) are completely sequenced with the highest possible accuracy. The service includes design

and synthesis of all primers, evaluation as well as assembly of all obtained sequences to a consensus. Upon request, assembly against a reference sequence is also performed. The results (.ab1 and .seq files) depend on the length of the template. **Details on request**

6. **GMP/GLP Compliance-DNA Sequencing: contact us for modalities/monitoring/audit**

Shipping

- @ ambient temperature in a padded envelope
- Please send order form via e-mail to: DNAseq@4base-lab.com