

FULL SEQUENCING SERVICE

Full sequencing means full service and high quality. This option guarantees the best sequencing results when it comes to read length, quality of data and customer wishes.

BaseClear's full sequencing service in short

- DNA concentration will be measured prior to the sequencing reaction in order to obtain optimal results.
- Sequencing data are automatically analysed by PHRED, the international standard software for superior base calling and sequence data interpretation. Poor sequence runs that do not meet our quality standards are reviewed manually.
- Failed runs are repeated at no additional charge.
- Customers can choose to submit raw PCR product or bacteria instead of purified PCR product or plasmid DNA. BaseClear will purify DNA out of these samples at additional costs and delivery time (1 day).
- Delivery time: 2 working days.

Options

Full short: Single sequencing reaction, including DNA concentration measurement, data editing and rerun where necessary. Short run with a readlength of a maximum of 550 bp.

Full long: Single sequencing reaction, including DNA concentration measurement, data editing and rerun where necessary. Long run with a readlength of a maximum of 1000 bp.

GC-rich run: Additional charge for GC-rich samples. The sequencing reaction will be performed using a special sequencing kit.

Sequencing primer design and synthesis: Additional option, design of a sequencing primer, synthesis of this primer on a 40 nM scale.

Plasmid miniprep: Additional option, purification of plasmid DNA prior to the sequencing reaction.

PCR purification: Additional option, purification of PCR product.

Primers

Sequence reactions can be performed with the primer of your choice:

- Standard primer, provided by BaseClear free of charge (see the list on our website).
- Custom primer, sent with the order.
- Custom primer designed and synthesised by BaseClear (additional costs and one day delivery time).
- Client-specific primer, which is already in-house.

You submit ...

Purified plasmid or PCR product

- Plasmid DNA or PCR product, column-purified and dissolved in ultra pure water or 10 mM Tris (pH 8.0) in BaseClear vials. For samples submitted in Eppendorf tubes, the delivery time will be 3 instead of 2 working days.
- Please note that DNA samples should be free of RNA, EDTA and ethanol, since trace amounts of these compounds will disturb the sequence reaction.
- Plasmid samples should be submitted in a concentration of 20 ng/μl per kb DNA, in a total volume of minimal 30 μl.
- PCR product samples should be submitted in a concentration of 2 ng/μl per 100 bp, in a total volume of minimal 30 μl.

BASECLEAR

FOR 100% DNA RESULTS

Accredited service laboratory for

- DNA-based Research
- Quality Assurance
- Forensics



BaseClear offers services both for standard and specialist DNA Technologies, in the field of DNA sequencing, genome analysis, genotyping, DNA synthesis and protein expression.



BaseClear's technical team consists of experienced product specialists, who optimise experimental procedures in order to obtain optimal results.

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Raw PCR product

- Samples should contain 30 µl PCR product. 2 µl of the PCR product should give a single sharp and clear band on agarose gel.

Bacteria

- Bacteria should be sent in as agar stab, glycerol stocks or petri dishes with single colonies. Do not send more than 2 samples per petri dish. Glycerol stocks should be sent on dry ice. All samples should be properly sealed with parafilm. BaseClear will only use organisms that are classified under our GGO license. Consult the order form for more details.

You receive ...

- The full service. BaseClear purifies the DNA (if requested), checks the DNA concentration, reviews and edits the data and resequences samples if necessary.
- Upon request, the data can be sent by regular mail instead of email, with a CD-ROM containing the sequence data (additional costs).
- Delivery time: 2 working days.

Procedure

Go to the ordering section of our website, choose the Full Sequencing Service and follow the instructions. Send your samples to BaseClear in a Basebox in a padded envelop, **together with a completed order form**. Samples containing purified DNA should preferably be submitted in **BaseClear vials**. Basebox and BaseClear vials can be ordered **for free** via info@baseclear.com. Please do not use a Basebox for sending bacteria.

In addition to the Full sequencing service, BaseClear offers several other sequencing services.

This table provides an overview.

	WE OFFER						YOU SUBMIT		
	Repetition of failed results	DNA conc. check	Editing of data	Results within 24 hours	Distinction between long/short run	Primer design and synthesis included	Unpurified DNA	Purified DNA	Bacteria
Quick Shot Sequencing								*	
Full sequencing									
24-hour sequencing									
24-hour Quick Shot								*	
High Throughput							**	**	**
Project Sequencing									
Special sequencing									

*Premix DNA and primer
 **Use 96- or 384 well plates

Please use the table to find the service that best meets your wishes

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