PROJECT SEQUENCING SERVICE

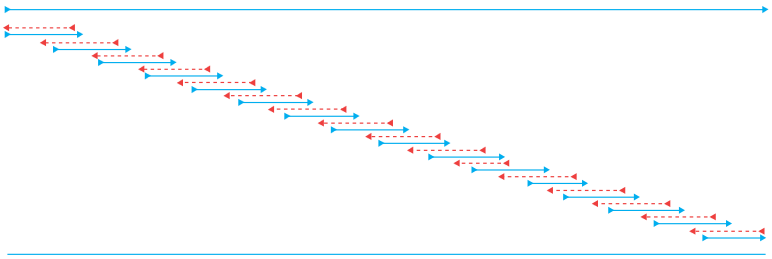
BaseClear's project sequencing service includes all steps that are necessary to obtain a reliable contiguous sequence from your clones. A convenient option.

BaseClear's project sequencing service includes:

- Purification of DNA samples.
- DNA concentration measurements.
- Design and synthesis of all necessary primers.
- Optimal sequencing reaction, if necessary under specific conditions e.g. in case of GC-rich DNA.
- Assembly and (manual) editing of the sequence data.
- Comparison to a reference sequence if requested.
- Customer will be informed regularly about the progress.
- Extensive advice for special projects.
- Delivery time depends on read length and sequencing strategy. In case of primer walking we analyse > 1 kb per week. Delivery time for the ultrafast project service: 5 working days.

Single-stranded or double-stranded sequencing

Sequencing can be performed for one or for both DNA strands. Double-stranded DNA sequencing results in a higher accuracy of the sequence data. If a reference sequence is known, BaseClear can design the necessary primers on the basis of this. If a reference sequence is not available, or if a clone contains unknown inserts, the DNA can be sequenced via primer walking. Due to the overlap of the resulting sequences, the complete contiguous DNA sequence can be determined.



Ultrafast service

For constructs < 10 kb it is possible to perform the complete sequencing project within 5 working days. This ultrafast service is only possible if a reference sequence is known.

Options

PROJECT single-stranded: Complete sequencing of a construct, including DNA purification, primer design and synthesis, data assembly, editing and comparison to a reference sequence. Only one strand is sequenced, using forward or reverse primers. Each basepair will be sequenced at least once.

PROJECT double-stranded: Complete double-stranded sequencing of a construct, including DNA purification, primer design and synthesis, data assembly, editing and comparison to a reference sequence. Both strands are sequenced, using forward and reverse primers. Each basepair will be sequenced at least twice (additional coverage is possible upon request).

PROJECT ultrafast: Complete single-stranded sequencing of a construct (< 10 kb) in 5 working days. Only possible if the reference sequence is known.

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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PROJECT SEQUENCING SERVICE

You submit …

Reference sequence. If not available, the DNA will be sequenced via primer walking, which will take more time.

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 or 1,5 ml Eppendorf tubes.
- 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.

Raw PCR product

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

Bacteria

- Bacteria containing high copy number plasmids 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…

- Full report in pdf-format, including the assembly and the resulting contiguous sequence per clone in FASTA format, and a comparison to the reference sequence. Upon request, the report can also be sent by regular mail.
- Delivery time: depends on the total readlength and the sequencing method. In case of primer walking we analyse > 1 kb per week.
- Delivery time for the ultrafast project service: 5 working days.

Procedure

Go to the ordering section of our website, choose the Project 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 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 project 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					I			I*	
Full sequencing	I	I	I		I		I	I	I
24-hour sequencing				I	I			I	
24-hour Quick Shot				I	I			I*	
High Throughput					I		I**	I**	I**
Project Sequencing	I	I	I			I	I	I	I
Special sequencing	I	I	I				I	I	I

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

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

FOR 100% DNA RESULTS