

CLONING SERVICE

Recombinant DNA cloning is not always easy to execute and often time-consuming. BaseClear has considerable experience in efficiently completing challenging cloning projects. This can in part be attributed to the fact that we have our own in-house sequencing and gene synthesis facilities.

Experienced in challenging cloning projects

BaseClear has years of experience in the creation of DNA constructs, ranging from the cloning of PCR products to the construction of large and complex plasmids. Cloning projects can be complicated due to issues such as gene toxicity, large vector or insert size, unstable DNA elements or the presence of DNA secondary structures. We have experience in dealing with many of these difficulties and can help you to solve them.

Interactive and controlled projects

During the planning and execution of cloning projects, we consult our customers and ensure that every aspect of the work is agreed upon before it is performed. In addition to this, we analyse every step of the cloning process. This enables us to assess the success of every stage. If any given stage is not successful, we are able to rapidly and precisely identify the reason why.

Options

Standard PCR cloning service

For straightforward cloning jobs, we offer an attractively priced standard PCR-cloning service. For a fixed price, we will execute your cloning project and verify the results via DNA sequencing, all within 10 working days.

Customised cloning service

If you need a DNA construct that fits your specific requirements, we can design and perform a customised cloning project. Our in-house DNA synthesis and sequencing facilities in combination with our cloning experience enable us to successfully create most DNA constructs. For each individual cloning project, we select the most appropriate techniques and approach.

The next step: expression of the cloned gene

In addition to this cloning service, BaseClear offers possibilities for protein expression and purification:

- Cloning into an appropriate expression vector.
- Expression in *E. coli* and analysis of the expression level.
- If necessary, optimisation of the expression level.
- Protein purification via a protein tag.

For further information, please see the 'Protein expression and purification' factsheet.

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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You submit ...

- For standard PCR cloning: 3 µg of purified PCR product.
- For customized PCR cloning: 10 µg donor vector containing the DNA fragment of interest and 10 µg recipient vector into which the DNA-fragment has to be cloned.
- In the event that you do not have your gene of interest, we can synthesise the DNA-fragment in-house, order it commercially or prepare it by PCR-amplification from genomic material. Additional costs will be charged for these options.

You receive...

- The DNA fragment cloned into the recipient vector of interest.
- Report of the cloning process and DNA sequence data verifying the presence of the correct sequence.

BaseClear will only work with organisms and DNA that are classified under our GGO license. BaseClear is entitled to check the sequence for contents. See our website for pricing.

	PCR cloning	Custom cloning
Vector	Standard (pBC)	Client-specific
Verification	Check 12 clones by colony PCR and 5 positive clones by sequencing 500 bp on both sites of the insertion point with standard primers.	Check clones by colony PCR and restriction analysis. Positive clones will be verified by DNA sequencing.
Delivery time	10 working days	Upon request

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