

REAL-TIME PCR SERVICE

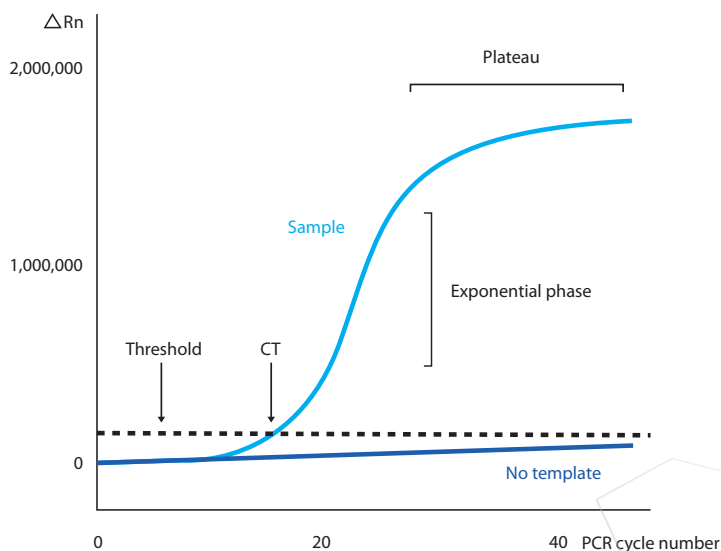
Real-Time PCR technology is an ideal technique for very accurate copy number determinations. BaseClear can perform standard real-time PCR assays or develop a customised new assay, including the required set of reference genes.

Accurate copy number determination for many samples

Real-time PCR is a fast and accurate method for determining copy numbers of one or more genes in large number of samples. In this method, the amount of amplified DNA is coupled to the measured fluorescence intensity via the presence of a fluorescent reporter molecule. Based on the number of PCR cycles that is needed to pass a certain threshold value, it is possible to calculate the initial amount of RNA or DNA. The technique can also be used for SNP and mutation screening.

Advantages of BaseClear's Real-Time PCR service

- Accurate copy number determination.
- Applicable to a large number of samples.
- Standard sets of reference genes available for a variety of species.
- Applicable to all possible genes, based on standard Real-Time PCR kits (Applied Biosystems) or newly designed assays.
- Development and performance of SNP/mutation assays.
- Results within 5 working days.



Real time PCR possibilities

Standard real-time PCR assays

BaseClear can perform all standard real-time PCR assays supplied by Applied Biosystems. See www.appliedbiosystems.com for the available kits. Our well-equipped laboratory with our automated PCR and sequencing facilities enables us to perform these assays fast and accurately within five working days.

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.

BaseClear B.V.

P.O.Box 1336
2302 BH Leiden
The Netherlands

Einsteinweg 5
2333 CC Leiden

T +31 (0)71 523 39 17

F +31 (0)71 523 55 94

E info@baseclear.com

W www.baseclear.com

FOR 100% DNA RESULTS

WWW.BASECLEAR.COM

REAL-TIME PCR SERVICE

Design of new real-time PCR assays

In addition to this, we are able to design a completely new real-time PCR assay targeting the genes of your choice. Specialised software allows us to design the optimal assays for an accurate copy number determination.

Reference genes

In the case of RNA samples, it is necessary to incorporate a set of reference genes in order to estimate the efficiency of the conversion from RNA into cDNA. We have standard sets of reference genes for a variety of species. If necessary, we can design a new set of reference genes that meets your requirements exactly.

SNP or mutation assays

We can develop and perform Real-Time PCR assays for Single Nucleotide Polymorphisms (SNPs) or for mutations. These assays can be used to detect the presence and zygosity of known SNPs and point mutations.

You submit ...

- Samples containing at least 0,5 µg purified high quality DNA or RNA, dissolved in water with a minimum concentration of 50 ng/µl. We require a minimum of 25 samples.

You receive ...

- A report with data of the real time PCR assays and, if applicable, the design of the primers and the reference genes.
- Delivery time: 5 working days for standard realtime PCR assays with standard reference genes.
- Delivery time for newly designed assays and/or newly designed reference genes: upon request.

Alternative service: Multiplex Ligation-dependent Probe Amplification (MLPA)

For copy number determinations on a larger number of genes (40-60), our MLPA service will be more appropriate. For more information about this service, please see our separate leaflet.



**FOR 100%
DNA RESULTS**