

Genaxxon BioScience cDNA Library Service

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Nowadays, as functionality of proteins and the activity of single genes, in specific tissues, is in the focus of researchers interest, the demand for cDNA libraries is increasingly growing. Several providers of cDNA library services have their laboratories abroad, but many customer are concerned about the transport of their valuable and rare material.

Genaxxon and its cooperation partners offer an individual project specific consulting. Our customer have the possibility to get a custom made service regarding the used vectors, quality control or size of inserts of the cDNA libraries.

Our service includes also the sequencing and data base research of 48 randomly choosen clones, giving our customers a first and valuable information about the cDNA library clones. Additionally we offer to sequence additional 192 clones (with annotation) for a first expression analysis. Resuming in detail expression analysis of the cDNA library can also be done by us.

Plasmid- or Phage (lambda) libraries

To be delivered by customer

- 2 – 4 g of tissue
- 5 x 10⁸ cells from cell culture
- 2 – 3 mg total RNA
- 15 – 20 µg poly (A)⁺-RNA

Service of Genaxxon and its cooperation partner

- Isolation of poly (A)⁺-RNA from tissue (delivered by customer and if RNA is not provided).
- cDNA synthesis (incl. size selection) from poly-(A)⁺-RNA.
- Cloning into vector according customer needs
- Quality control (sequencing of randomly choosen clones)
- Delivered library size: 1 x 10⁶ primary clones/pfu.
- Not used RNA/DNA material will be send back.
- Library documentation

Time till delivery of cDNA library

Ca. 6- 8 weeks after tissue or RNA has reached our laboratories

Additional Service

Screening sequencing of cDNA clones and automatic sequence annotation on DNA- and protein level.

Shotgun cDNA libraries from BACs and Cosmids

To be delivered by customer

E.coli clone and 1 – 2 µg reference DNA-probe

Service of Genaxxon and ist cooperation partner

- Preparation of fragments size according to customer needs (standard size: 1.3 – 1.6 kb).
- Subcloning of fragmented DNA in vector according to customer needs (standard: pUC19).
- Library documentation

Shipment of shotgun libraries

- As DNA
- As bacteria glycerine culture
- As picked clones (96 well agar plates)

Time till delivery of cDNA library

Ca. 2 - 3 weeks after material has reached our laboratories

Additional Service

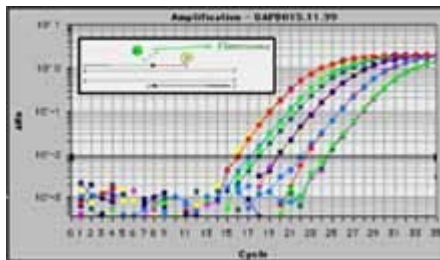
Sequencing of Shotgun clones, data assembly and automatic sequence annotation on DNA- and protein level.

Gene Expression Analysis

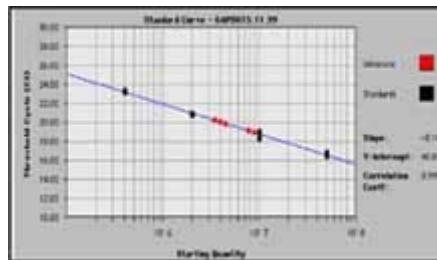
Quantitative PCR / Expression Analyses

Genaxxon offers quantitative gene expression studies of nearly any gene, e.g. human, mouse or rat genes.

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Real-Time PCR



Accurate Quantification

Our service covers all steps in quantitative PCR studies from the experimental strategy to final data analysis. As quantitative PCR is resource intensive and needs specific equipment, outsourcing saves scientists valuable time and high instrumentation costs.

Genaxxon offers versatile quantitative PCR services, that are tailored to meet the specific needs of our customers and that can be applied to many different problems in molecular biology research.

Gene expression analyses are typically performed using gene specific probes optimised by Applied Biosystems as Assays-on-Demand™. SYBR green or customized TaqMan assays are available, too.

Applications

- Gene expression analysis by absolute and relative mRNA quantification.
- Allele discrimination for the study of genetic diseases.
- Analysis of oncogene amplification by quantification of gene copy numbers in whole genomes (Oncology).
- Biodistribution analysis (Gene Therapy).
- Detection of GMOs and recombinant DNA in biotechnology products.
- Monitoring of transgenic mice.

Service includes:

Consulting

Competent assistance in the selection of project oriented strategies.

Experimental Design

Design of gene-specific DNA primers and TaqMan probes, design, cloning and synthesis of gene-specific DNA and RNA standards.

Sample Preparation

Isolation and purification of DNA and RNA from tissue, cells, food, biotechnology products, etc.

Assay Development

Optimisation of new Real-Time PCR assays reaching maximum levels of sensitivity, accuracy and reproducibility.

Gene Expression Analysis

Quantitative PCR / Expression Analyses

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Routine Assay Performance

Professional performance of optimised Real-Time PCR assays with high throughput capacity.

Data Analysis

Complete analysis of raw data for relative or absolute mRNA and/or gene quantifications allowing clear and reliable interpretation of the final results, e.g. ratio gene of interest/house keeping gene.

Documentation

The experimental strategy, raw data and final results will be summarised in a detailed report.

Confidentiality

Genaxxon treats confidentiality with the highest value. Thus, we do not hand over any details of a project to a third party.

Prices:

Due to specific demands of each project, prices will be calculated individually. Please ask for a customised free quotation.

A typical price example for an analysis of 4 different targets (genes) from 25 samples is:

SYBR Green quantitative PCR Assay		Price in €
	Double analysis of a sample per target	15,00
	Setup of the SYBR Green Assay per target	150,00
TaqMan Probe Assay		Price in €
	Double analysis of a sample per target.	20,00
	Setup of the TaqMan Probe Assay per target.	275.00

The price per assay can be reduced substantially if tests for several targets are performed in parallel.

Please ask for a detailed quotation.