atlasbiolabs

molecular genetic analyses

Agilent Expression Profiling Service

General Information

The Agilent microarray platform is among the world's leading DNA chip technologies. Based on 60mer oligonucleotides and a very flexible ink jet printing device, Agilent expression arrays offer many outstanding features:

- Very high dynamic range (>4 logs)
- Very high accuracy, as measured by comparison with TaqMan RT-qPCR (r> 0,9)
- Cost-effective multiplex formats (e.g. 4plex, 8plex)
- Design of custom arrays is free of charge
- Low amount of starting material required (25 ng of total RNA)

Agilent
Certified
Services Provider
Microarray-Based
Genomic Analysis

Why Choose ATLAS Biolabs' Services?

- ATLAS Biolabs is an Agilent Certified Service Provider
- ATLAS Biolabs is certified according to the international norm DIN EN ISO 9001:2008
- ATLAS Biolabs' personnel have successfully analysed tens of thousands of microarrays since 2001
- Our service is fast, reliable and cost-effective
- We offer professional assistance for both planning experiments as well as further data analysis and interpretation

Agilent Expression Profiling Service Portfolio

Organisms	Formats	Applications
Man, mouse and rat	8 x 15K, 4 x 44K, 8 x 60K	Gene expression
Model organisms (Arabidopsis, yeast)	One colour/two colour	miRNA expression
Production animals (Bovine, Porcine, Chicken, etc.)	Catalogue and custom arrays	Custom array design free of charge, single custom arrays can be ordered
Agricultural crops (wheat, rice, maize, barley, etc.)		

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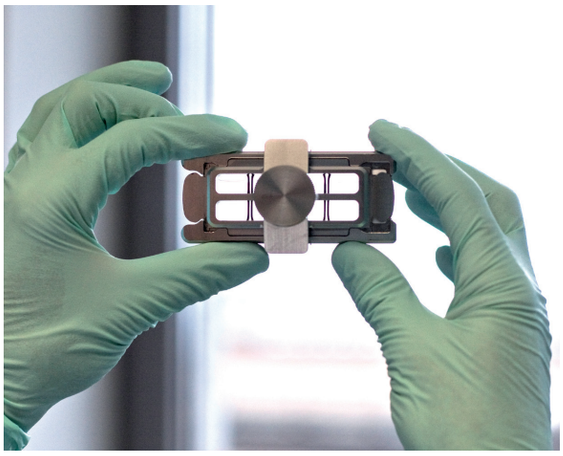

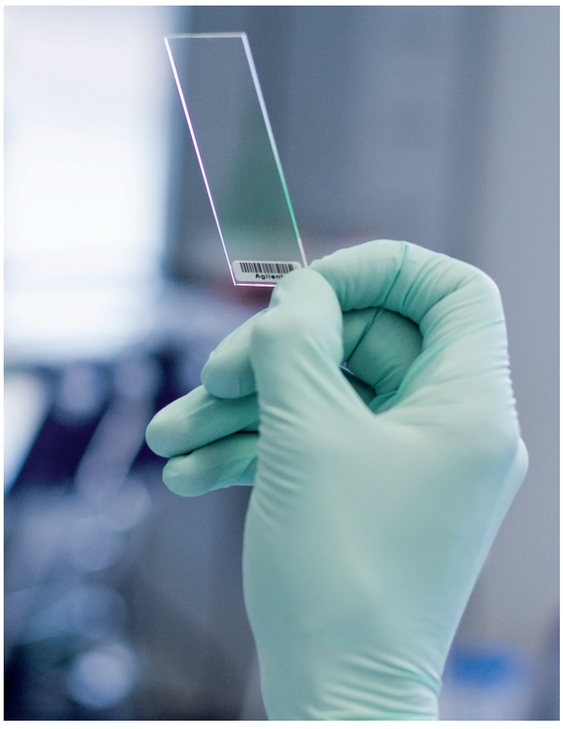

Service Range

- **Full Service:** Customer sends total RNA or mRNA. ATLAS Biolabs takes over the complete processing procedure incl. sample labelling, array hybridisation, washing, staining, scanning and basic data analysis.
- **Core Service:** Customer sends labelled cRNA. ATLAS Biolabs performs array hybridisation, washing, staining, scanning and basic data analysis.
- **Data Analysis:** is offered at various levels; starting from the simple determination of the transcriptional status of a gene (absent/present) via calculation of significantly up- and downregulated genes, to more sophisticated analyses such as hierarchical clustering, principal component analysis or pathway analysis.

Quality Control

ATLAS Biolabs is certified according to the international norm DIN EN ISO 9001:2008. Our production processes are subject to rigorous quality control at all steps:

- Quality and quantity of each RNA sample sent to our company as well as each cRNA sample synthesised at ATLAS Biolabs will be determined by analysis on an Agilent 2100 Bioanalyzer and by photometric analysis. Samples which do not pass QC will not be processed further unless required by the customer.
- Customers receive a QC report documenting the quality of each single hybridisation.
- All quality assurance procedures are electronically documented and available for our customers on demand.

Data Delivery

- Timeline: 3–4 weeks after receipt of samples (for >50 samples, please inquire)
- CD-ROM/DVD/external HDD sent to customer includes all original data, as well as the results in TXT format

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