



Affymetrix Exon Array Service at ATLAS Biolabs

Service range

- **Full Service:**

1. Quality control of total RNA
2. Reduction of ribosomal RNA
3. First-round cDNA synthesis
4. cDNA purification
5. cRNA synthesis
6. Second-round cDNA synthesis
7. Fragmentation and Labelling
8. Hybridization, washing, and scanning of appropriate Affymetrix GeneChip®
9. Primary data analysis with Expression Console.

- **Core Service** will comprise steps 8 and 9.

Sample preparation

You may send us either:

- Total RNA, at least 3 µg in RNase-free H₂O at a minimum concentration of 400 ng/µl.
- mRNA, at least 150 ng in RNase-free H₂O at a minimum concentration of 20 ng/µl.

Quality of RNA has to be documented (e.g., by gel analysis or Agilent Bioanalyzer). After receipt, we will perform an additional quality control with the Agilent Bioanalyzer to ensure RNA was not degraded during transportation. The amount of RNA will be determined spectrophotometrically.

- Fragmented, biotinylated cDNA, at least 5 µg in max. 40 µl RNase-free H₂O.

Affymetrix GeneChip® Exon Arrays

Customers may purchase GeneChip® exon arrays directly from Affymetrix and send them to ATLAS Biolabs. Alternatively, GeneChip® exon arrays can be purchased from ATLAS Biolabs in combination with analysis services.

Sending of RNA and arrays

- RNA must be sent on dry ice.
- Arrays can be sent at room temperature, and they must not freeze.

Delivery time

- Full Service: 3-4 weeks for up to 20 samples. For >20 samples, please inquire.
- Core Service: 2-3 weeks for up to 40 samples. For >40 samples, please inquire.

Geschäftsführung
Prof. Dr. Peter Nürnberg

Bankverbindung
Sparkasse Köln-Bonn
BLZ 370 501 98
Kto 1901 035 046
SWIFT-Code: COLSDE33
IBAN: DE5337050198 1901035046

Steuer-Hinweise
VAT Reg. No.:
DE 251633620
Steuer.Nr.
223/5801/5606

Handelsregister Nr.
HRB - 59119
Amtsgericht: Köln

Sitz der Gesellschaft
Kerpener Str. 61-69
D-50937 Köln



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• **Quality control**

- Quality and quantity of each RNA sample sent to ATLAS Biolabs will be determined by analysis on an Agilent 2100 Bioanalyzer and by photometric analysis. If RNA samples do not fulfill the requirements for GeneChip® analysis, a set-up fee of 25.- EUR per sample will be charged.
- In case the customer wants ATLAS Biolabs to process total RNA samples with minor quality, 400.- EUR will be charged in case of synthesis failure.
- Quality and quantity of each cDNA sample synthesized at ATLAS Biolabs will be determined by analysis on an Agilent 2100 Bioanalyzer and by photometric analysis.
- All quality assurance procedures are electronically documented and available for our customers on demand.

Results

Results are delivered on CD-ROM/DVD, including the following data:

- Original signal intensities (cel-files) as well as all other original files (exp, chp, rpt) except for the dat-file.
- Expression results as EXCEL file.

Storage of GeneChips® and biological material

GeneChips® will be discarded immediately after finalisation of the experiment. RNA, cDNA and hybridization mix will be stored for four weeks after finalisation of data analysis. **After this period, any biological material will be discarded *without further notification*.**

In case the customer wants ATLAS Biolabs to store biological material for a longer period, this has to be stated in writing at the time of placing the order.

Data storage

Data will be stored at ATLAS Biolabs for four weeks after CD-ROM/DVD was sent to the customer. **After this period, data will be deleted *without further notification*.**

Contact

- customer-support@atlas-biolabs.de
- affymetrix@atlas-biolabs.de

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