

Expression profiling

DNA Vision is the leading gene expression profiling company providing a one-stop shopping solution to speed up your drug discovery process or follow up specific genes' expression level during clinical trial. Our highly qualified team, made up of molecular biologists, geneticists, specialists in bioinformatics and other computer scientists, provides academia and biotechnology and pharmaceutical companies with a comprehensive range of transcriptome analyses.

A one-stop shopping solution (from design to biology)

- ▶ Assistance with design
- ▶ RNA extraction (tissue, cells, blood, saliva)
- ▶ RNA quality check
- ▶ RNA processing (RT-PCR, Microarray)
- ▶ Data quality check
- ▶ Biostatistical analyses
- ▶ Customised bioinformatical analyses
- ▶ Reporting

To guarantee the quality of our results, we comply with the international drug development standards required by regulatory authorities. We are the first laboratory in Europe to be **ISO17025** accredited in pharmacogenetics and pharmacogenomics. We are **CLIA** registered and also **GLP** certified for pharmacogenomic and toxicogenomic studies.



DNA Vision is equipped with ABI SDS for low or high throughput SybrGreen / TaqMan / TLDA assays

DNA Vision is an official Affymetrix ISO17025 / GLP compliant service provider



Added value for your research

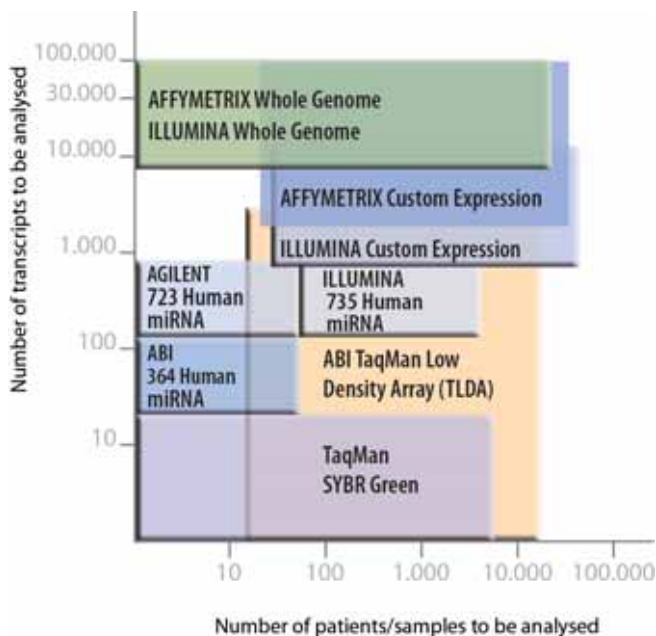
- ▶ **Expert assistance** : from design to results
- ▶ **Solution provider** : the best techniques for your requirements
- ▶ **Fast and flexible turnover** : medium or large studies
- ▶ **Preclinical & Clinical studies following GLP & GCLP guidelines**
- ▶ **GLP certified for pharmacogenomic and toxicogenomic studies (IPH GLP D-01)**
- ▶ **ISO17025 accredited (BELAC # 293-TEST)**
- ▶ **CLIA registered**

Expression profiling

DNAVision is a solution provider rather than a simple service provider associated with one technology. We meet your specific requirements by using different techniques associated with a variety of technologies.

Instrumentation :

- ▶ Agilent 2100 Bioanalyser
- ▶ NanoDrop ND-100 spectrophotometers
- ▶ 3 Affymetrix 450 hybridisation ovens
- ▶ 3 Affymetrix GeneChip fluidics stations (2 for research purposes and 1 for diagnostics)
- ▶ 2 Affymetrix GeneChip scanners 3000 AutoLoader for 48 arrays (1 for research purposes and 1 for diagnostics)
- ▶ 1 Illumina beadstation 500 autoloader
- ▶ Agilent MR-2 DNA microarray scanner
- ▶ ABI PRISM 7900 sequence detection system with LDA block technology.
- ▶ ABI PRISM 7700 sequence detection system
- ▶ Several PCR machines
- ▶ Hamilton STAR robot system & others



The DNAVision expression profiling team



State-of-the-art technology

Using fresh-frozen, paraffin-embedded tissues, blood or cells, or RNA, we can do

- ▶ Whole genome expression analysis (Affymetrix, Agilent, Illumina)
- ▶ Focused or custom expression array (Affymetrix, Agilent, Illumina)
- ▶ Q-RT-PCR (SybrGreen)
- ▶ TaqMan assays
- ▶ LDA (Low Density Array) assays
- ▶ Mature miRNA quantification

We can do the statistical analyses of raw data including

- ▶ Supervised and unsupervised cluster analysis
- ▶ Parametric testing (t-test, ANOVA)
- ▶ Non-parametric tests
- ▶ Correction for multiple factors (FDR)
- ▶ Principal component analysis (PCA)
- ▶ Class prediction analysis (K-nearest, SVM, median/centroid)
- ▶ RQ values - Delta delta Ct

From your data we can do bioinformatical analyses

- ▶ Gene ontology analysis
- ▶ Pathway analysis
- ▶ GEO profile concordance
- ▶ OMIM links
- ▶ Literature cross analyses

Final reporting according to your requirements



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