

# DNA sequencing

**DNA Vision** is the leading DNA analysis company providing a complete solution for sequencing projects in research and for regulatory purposes.

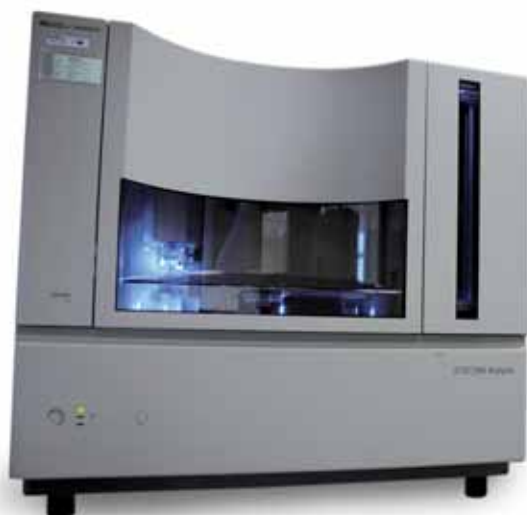
With high quality DNA, an average read length of 800 bases of 20 phred is routinely reached.

## One-stop shopping solution (from design to biology)

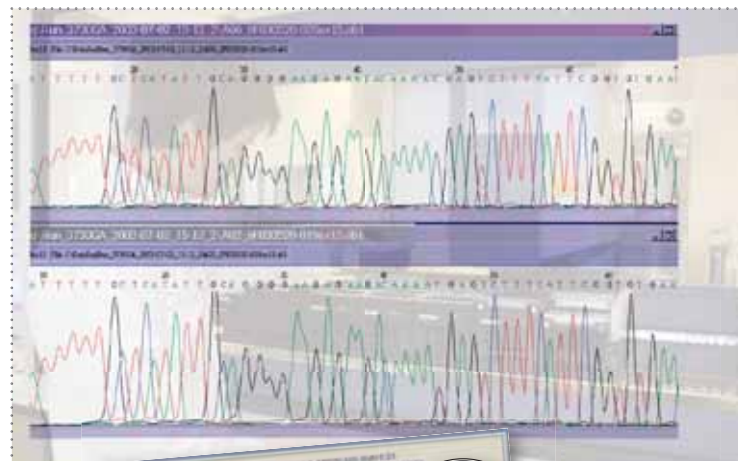
- ▶ Project and primer design
- ▶ PCR amplification and purification
- ▶ Plasmid preparation
- ▶ Cycle sequencing and purification
- ▶ Capillary electrophoresis
- ▶ Sequence analysis, contig assembly
- ▶ Final reporting according to your requirements
- ▶ Protocol transfer and validation

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 sequencing services (for routine analyses and R&D projects). DNA Vision is also GLP certified.

State of the art Applied Biosystems sequencing platforms



## Electropherograms



## Added value for your research

- ▶ **Expert assistance** : from design to results
- ▶ **Fast and flexible turnover** : medium or large studies
- ▶ **Studies according GLP and cGMP guidelines**
- ▶ **GLP certified for pharmacogenomic and toxicogenomic studies (IPH GLP D-01)**
- ▶ **ISO17025 accredited (Belac # 293-TEST)**

# DNA sequencing

**DNAVision** is a solution provider rather than a simple service provider associated with one technology. We use different techniques associated with a variety of technologies so as to be able to meet your specific requirements.

## Technologies :

- ▶ Sequencing using v3.1 or v1.1 Big Dye chemistry
- ▶ ABI 3730 and ABI 3130 genetic analyzers (fully automated 16 and 48 capillary electrophoresis equipment)
- ▶ Assembly and alignment using Vector NTI software (Invitrogen)
- ▶ SNP detection using SeqScape software (ABI)

*DNA sequencing in biopharmaceutical process (Genetic Stability)*



## State-of-the-art technology :

### ▶ High throughput sequencing

**DNAVision** can sequence your fragments with completion of cycle sequencing reactions and purification. Alternatively, we can run your ready-to-load products on our sequencers.

### ▶ Sequencing design and validation

**DNAVision** develops and validates sequencing projects in order to find, for example, new mutations in genes of interest.

### ▶ Primer walking

**DNAVision** can sequence constructs between 650 bp and 18 kb through design of primers after each round of sequencing and assembly of contig.

### ▶ Sequencing for regulatory purposes

**DNAVision** can carry out sequencing projects for customers submitting files to regulatory agencies. This is done in GLP compliant facilities according to GLP/ cGMP requirements. For each project, a dedicated study director draws up a study protocol, 4-fold coverage is done and results and reports are provided in a format suitable for regulatory submission.



*Final report for regulatory submission*



[www.dnavision.be](http://www.dnavision.be)

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