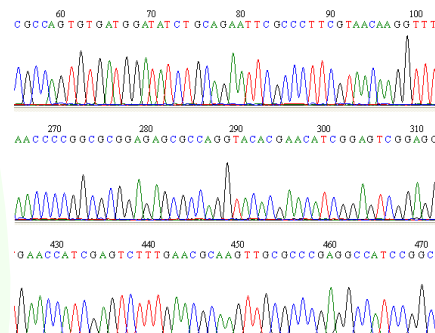


**DNA sequencing by ABI BigDye chemistry**

Centre of plant structural and functional genomics, IEB AS CR

• **Service description**

We offer a fast DNA sequencing service with a turnaround time of 10 working days. Our laboratory has a long-term experience in dideoxy method of DNA sequencing (Sanger sequencing). Standard protocols based on 3.1. BigDye chemistry (ABI) are used for sequencing reactions. For detailed information about the service, please visit our web site (<http://lmcc.ieb.cz/dna-sequencing-service>). If needed, please feel free to discuss individual steps of sample preparation and purification with our staff.



• **Basic equipment related to the service**

Our laboratory is fully equipped to perform Sanger sequencing. The equipment includes PCR cyclers in 96-well plate format, BioMEK robotic liquid handling station (Beckman Coulter) for purification of sequencing products using magnetic beads (96-well format). Vital equipment includes 3730xl DNA analyzer (96-capillary sequencer, Applied Biosystems) for the analysis of sequencing products and sequencing analysis software (ABI) for basic data analysis.



Biomek NXP (Beckman Coulter)

We offer two types of sequencing service:

I. Preparation of sequencing reaction (using 3.1 BigDye chemistry, ABI), post-reaction cleanup, capillary electrophoresis (3730xl DNA analyzer) and basic data processing

II. Electrophoretic separation (3730xl DNA analyzer) of samples prepared by a customer using ABI BigDye chemistry



3730xl DNA analyzer (Applied Biosystems)

• **Contact for expert and technical issues**

Head of department:

**Jaroslav Doležel**

Telephone: +420585205852

dolezel@ueb.cas.cz

Responsible person:

**Marie Seifertová**

+420585205881

seifertovam@ueb.cas.cz

Consultations:

**Eva Hřibová**

420585205854

hribova@ueb.cas.cz

Consultations:

**Miroslav Valárik**

+420585205857

valarik@ueb.cas.cz

• **Price and other terms**

ad I) DNA sequencing and basic data analysis of 1 sample: 200 CZK + VAT

ad II) Capillary electrophoresis and basic data analysis of 1 sample: 30 CZK + VAT

Detail information is available on website: <http://lmcc.ieb.cz/dna-sequencing-service>