**Fragment length analysis at KIGene**

The ABI 3730 PRISM® DNA Analyzer enables high quality sequencing up to 1000 bases and high resolution (1 bp) fragment analysis. The ABI 3730 instruments are in the 96 well format using a 48 x 36 or 50 cm capillary array.

The DNA can be labelled with up to four different fluorescent dyes. The fourth or fifth color, depending on the Dye Set used, is reserved for the internal lane size standard. We are using DS-33 (6-FAM; blue; VIC; green; NED; yellow; PET; red; LIZ, orange size standard) and DS-30 (6-FAM; blue; HEX; green; NED; yellow; ROX, red, size standard). We recommend the use of DS-33.

## How we want your pre-made fragment analysis samples

Fragment analysis samples should be supplied to us as fluorescently labeled, pooled PCR products in 96-wells plates. The concentration of products needs to be optimized by the user.

An internal size standard, that allows precise size calling by providing a means to normalize mobility during the run, is added to each well. The users can bring their own internal standards or KIGene will supply the appropriate internal size standard. Each user must book an entire run (a minimum of 48 samples).

## Sample delivery.

The sample names are added into the order form in the column order (A01-H01, A02-H02 etc). The form is submitted within iLab to the core and a hard copy is placed together with the samples.

***Internal Users***: Send samples by internal mail or place samples in any of our four drop boxes at Solna Campus area. After 10:00, note that your samples might be processed faster if you place them in our CMM drop box.

**CMM**

**Pick-up time:**

* 10:00 and 13:00 each business day

**Drop box location:**

* outside the Neurogenetics Unit, L8:00 (CMM entrance floor)

**BioClinicum**

**Pick-up time:**

* 10:00 each business day

**Drop box location:**

* Plan 5, close to the Skyway entrance

**BioMedicum**

**Pick-up time:**

* 10:00 each business day

**Drop box location**

* Plan 4, outside the lunch room located close to the Skyway entrance

**SciLifeLab**

**Pick-up time:**

* 10:00 each business day

**Drop box location**

* At the reception desk

***External Users*:** Preferably use strip-well lids over plastic of foil covers to prevent evaporation. Place the plate on a tip rack or between two cardboard pieces to stabilize the plate and prevent lids snapping off the plate.

**Address:**

KIGene

Translational Psychiatry, MMK
CMM L8:00, Karolinska University Hospital
Visionsgatan 18
171 76 Stockholm, Sweden

## Turn-around time

We usually run the plates the same day as we get them.

**Note**: In rare cases delays may occur if we experience unusually heavy loads or equipment failure.

## Data storage.

We store all data from pre-made fragment analysis samples for three years. Therefore, if you lose raw data files we can retrieve these for you if you give us the relevant information (date and plate ID).

## Sample storage.

We save the samples a month in our freezers.