



Appendix 3 to Agreement on Commissioned Activities /Collaboration Project

Instructions for Sample Delivery

Amount and quality of sample depend on the type of library(ies) that are going to be constructed. In its turn, the type of library depends on the type of the project and the nature of starting material from which the nucleic acid originates.

All details concerning the type of library preparation and sequencing strategy for a given project must be discussed with the UGC staff prior to the sample delivery. Quality of library preparation is directly correlated to quality and quantity of starting material.

Customers shall assess quality and quantity of the nucleic acid sample before submitting it to the UGC. We highly recommend **sterile nuclease-free water** as the sample solvent.

Amount of starting material required in the project

Ion Torrent

- DNA 1-5 µg.
It is of outmost importance that the DNA sample for the Ion Torrent is RNA free. Preferable solvent – water.
- AmpliSeq panels – 50 ng DNA or 20 ng total RNA. Specific instructions might be given for individual panels.

Ion Proton

- DNA (RNA-free) 1-3 µg. Preferable solvent – water.
- Whole transcriptome: 3-5 µg total RNA, or 1 µg rRNA depleted or polyA selected RNA. All RNA must be DNA-free.
- miRNA: at least 5 µg total RNA.
- AmpliSeq Exome sequencing: 100 ng.
- AmpliSeq Human Transcriptome sequencing: 10-100 ng (depending on quality).
- ChIP-seq: at least 10 ng of immune-precipitated DNA (please state if your sample may be sonicated during the library prep).

PacBio

- See a separate document

Customers should be aware of the fact that spectrophotometers of NanoDrop and NanoVue type do usually greatly overestimate the concentration. All measurements will be verified by UGC on Qubit system.

Please submit your samples together with a picture from agarose gel, or a .pdf-file with Bioanalyzer result. If a gel picture is submitted, please specify the information of amount of loaded nucleic acid and include size of fragments in ladder.

A separate Order Submission Form will be sent to the Principal Investigator/Contact Person of your project by the UGC project coordinator. The filled forms must be submitted as a print-out together with the sample, as well as an electronic version to olga.pettersson@igp.uu.se.

Samples received without submission forms will not be processed.

Shipment

Always use dry ice for shipment of RNA samples.

All DNA samples (including amplicons) must be submitted on ice, however dry ice is always preferred.

Please DO NOT write any recipient names on the package; address it ONLY to the Uppsala Genome Center