NextGen Sequencing – Sample requirements

A Eurofins Genomics Company

DNA

- DNA should be provided as double-stranded high molecular weight DNA with an OD 260/280 ratio 1.8-2.0 and an OD 260/230 2.0-2.2
- DNA should preferably be dissolved in RNase-, DNase- and protease-free high molecular grade water or Tris buffer (do not use DEPC-treated water)
- Samples should be treated with RNase (e.g. from QIAGEN) to minimize contamination through RNA
- "Ready to load" libraries, PCR products and amplicons must be column purified to rid samples of low molecular weight impurities (like e.g., primers, and nucleotides) and reaction buffer. Samples should appear as a single distinct band on an agarose gel.

RNA

- RNA should be provided as high quality RNA with an OD 260/280 1.8-2.0 and an OD 260/230 2.0-2.2
- The RNA Integrity Number (RIN; Agilent Technologies 2100 Bioanalyzer) resp. RNA quality indicator (RQI; Bio-Rad's Experion) value should be greater than or equal to 8
- RNA should preferably be dissolved in RNase-, DNase- and protease-free high molecular grade water or Tris buffer (do not use DEPC-treated water)
- We strongly recommend performing a final clean-up of the RNA using commercially available RNA purification kits (e.g. RNeasy spin columns from QIAGEN)

Samples have to be sent in properly labelled 1.5 ml snap cap microcentrifuge tubes (e.g., Eppendorf Safe Lock Tubes™). Differently sized tubes, or tubes that have screw caps may not be used.

For information on the DNA / RNA quantity and concentration required for specific library preparation methods please refer to your quote or contact us.

GATC Biotech AG
Chairman Supervisory Board: Dr. Florian Heupel
Board of Directors: Dr. Peter Persigehl, Dr. Marcus Benz
Local court Freiburg | HRB 381757 | Place of business: Konstanz
VAT-ID-No.: DE 142 315 733

Deutsche Bank Konstanz
BIC: DEUTDE6F690 IBAN: DE70 6907 0032 0051 7870 00
Baden-Württembergische Bank
BIC: SOLADEST600 IBAN: DE74 6005 0101 0004 2917 50

ISO 9001:2008 ISO 13485 ISO 17025

illumina CERTIFIED SERVICE PROVIDER CSPro

CERTIFIED SERVICE PROVIDER