

Next Generation Sequencing

Dear VBCF Sequencing User,

The following sequencing options are currently available at the VBCF NGS facility:

Illumina Sequencing: HiSeq 2500

Services
Spike In experiment (3-6 M reads)
50bp single read HiSeq 2500*
100bp single read HiSeq 2500*
50bp paired end HiSeq 2500*
125bp paired end HiSeq 2500*
150bp paired end HiSeq 2500**
250bp paired end HiSeq 2500**

* Guaranteed number of independent reads: 190 million

** Guaranteed number of independent reads: 110 million

Illumina Sequencing: MiSeq

Services
MiSeq 150 cycles, V3 chemistry*
MiSeq 600 cycles, V3 chemistry*
MiSeq 50 cycles, V2 chemistry**
MiSeq 300 cycles, V2 chemistry**
MiSeq 500 cycles, V2 chemistry**
MiSeq Micro 300 cycles***
MiSeq Nano 300 cycles****
MiSeq Nano 500 cycles****

*Targeted number of independent reads: 20-25 million

**Targeted number of independent reads: 15 million

***Targeted number of independent reads: 4 million

****Targeted number of independent reads: 1 million

ILLUMINA SEQUENCING: NextSeq

Services
NextSeq Mid Output 150 cycles*
NextSeq Mid Output 300 cycles*
NextSeq High Output 75 cycles**
NextSeq High Output 150 cycles**
NextSeq High Output 300 cycles**

*Targeted number of independent reads: 120 million

**Targeted number of independent reads: 375 million

PACBIO SEQUEL SEQUENCING:

Services
Sequel - SMRT cell 10hours
Sequel - SMRT cell 20hours*

*Recommended only for large amplicons and Isoseq-applications.

NANOPORE SEQUENCING:

Services*
Library preparation
Nanopore Sequencing: Minlon flowcell

*Service development ongoing