

Updated prices

Price examples for NGI Stockholm

1. General pricing information

To get a binding and exact price estimate, please contact orders@ngisweden.se.

The examples in this document are approximate prices as of Q1 2017 and are shown here to provide a rough estimate of how much your project will cost. For more detailed information or to request a binding price estimate please contact orders@ngisweden.se. **Please note that the information in this document is for cost estimation only, and that actual prices offered may deviate from the estimates stated in this document.**

We have added a standard fee of SEK 500 per sample to cover reagents bought from other vendors (such as Bioanalyzer chips, magnetic beads, tips, plates etc), and we also have a 30% fee to cover re-runs, remaining part of instrument service, shipping, quality assurance, etc. No university overhead is added.

Our “best practice” bioinformatics package, which is included in some of our service offerings (e.g., RNA-seq, resequencing, exome capture and de novo assembly), comes free of charge with our sequencing services (not included if you prepare your own libraries, with the exemption for human WGS on HiSeq X).

NGI provides a very generous pricing towards Swedish academia. Instrument depreciations, part of instrument service, rent and labour costs are sponsored by the Swedish Research Council (Vetenskapsrådet) and SciLifeLab, so users basically only pay for reagents. Also included in the service is planning and follow-up meetings with the NGI Stockholm representative(s) (if requested by the user).

Academic institutions outside of Sweden and users from industry pay the full cost. Thus, price estimates in this document are not valid for such entities (please contact us for a price estimate).

Other non-validated library preparation types are available. If you are interested please contact NGI.

2. Illumina HiSeq 2500

The Illumina HiSeq 2500 instrument can be used in two different configurations; High Output mode and Rapid mode.

In High Output mode, the flow cell consists of 8 separate lanes (see table 1 for details), and the smallest orderable unit is 1 lane for standard 2x125bp paired end sequencing. If you wish to use any other read-length you must order an entire flow cell (8 lanes), so it might be more cost-effective to use Rapid mode for these setups (see below).

In Rapid mode, the flow cell consists of 2 separate lanes (see table 2 for details), but the smallest orderable unit is still the whole flow cell (i.e. 2 lanes). Usually the libraries are clustered on the flow cell directly on the HiSeq instrument and both lanes are then treated as one single space. If the lanes need to be clustered separately (e.g. because of overlapping indexes etc) this has to be done using the cBot. This process will require an additional cost since an extra cBot cluster kit needs to be used.

Table 1. Overview of the illumina HiSeq High Output mode v4 flow cell. (*1x50bp only for full flow cells, i.e. 8 lanes)

Lanes	8
Read length	1x50bp* / 2x125bp
Read-pairs per lane	>188M (usually ca 250M)
Gb per lane (@ 2x125bp)	>44Gb (usually ca 62Gb)

Table 2. Overview of the illumina HiSeq 2500 Rapid mode flow cell.

Lanes	2
Read length	1x50bp / 2x100bp / 2x150bp / 2x250bp
Read-pairs per lane	>114M (usually ca 150M)
Gb per lane (@ 2x100bp)	>23Gb (usually ca 30Gb)

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2.1 Only cluster amplification and sequencing (you make your own library)

The sequencing cost on the Illumina HiSeq High Output v4 flow cell is SEK 20 460 for a standard paired end lane (2x125bp). If 1x50bp is used the smallest orderable unit is one whole flow cell (8 lanes) and the total cost is SEK 64 400.

On the Rapid mode flow cell the cost for a standard 2x100bp sequencing is SEK 34 274 (2 lanes). With the maximum read length of 2x250bp the cost is SEK 58 466. The shortest read-length is 1x50bp which costs SEK 14 766.

2.2 DNA sequencing

- Illumina TruSeq DNA PCR-free library prep: SEK 973
- Rubicon Thruplex DNA-seq library prep: SEK 1 252
- Nextera Mate-pair sample prep kit: SEK 4 160

Example setup for de novo sequencing of a ca 1Gb genome

A combination of two different short insert libraries (180bp and 650bp) and two different mate-pair libraries (3kb and 5kb). 2 lanes with 180bp library, 1 lane with 650bp library and 1 lane with both mate-pair libraries (all using paired end 2x125bp sequencing on Illumina HiSeq High Output mode). Total cost will be SEK 92 106.

2.3 RNA-seq

- Illumina TruSeq strand-specific RNA library prep (poly-A selection): SEK 1 156
- Illumina TruSeq strand-specific RNA library prep (RiboZero ribosomal depletion): SEK 1 756
- Illumina TruSeq small RNA library prep: SEK 1 704

Example setup for a human transcriptome

Total cost for 10 strand-specific libraries in 1 lane on Illumina HiSeq High Output mode (2x125bp): SEK 32 020 (SEK 3 202 per sample and ca 20M read-pairs on average)

The same setup with 15 strand-specific libraries in 1 flowcell (2 lanes) on Illumina HiSeq Rapid mode with single read (1x50bp): SEK 32 106 (SEK 2 134 per sample and ca 15M reads on average)

2.4 Exome sequencing

- Agilent SureSelect XT Human All Exon V5 kit including DNA library preparation: SEK 3 297

Please contact us for pricing information of other types of targeted sequencing.

Recommended standard setup

Total cost for 6 samples in 1 lane on Illumina HiSeq High Output mode (>90% of regions with a coverage of 10x or more): SEK 40 242

3. Illumina HiSeq X

The Illumina HiSeq X instrument can only be used for resequencing to at least 15X coverage of the genome size. The flow cell consists of 8 separate lanes (see table 3 for details), and the smallest orderable unit is 1 lane for standard 2x150bp paired end sequencing.

Table 3. Overview of the illumina HiSeq X flow cell.

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Lanes	8
Read length	2x150bp
Read-pairs per lane	>250M (usually ca 320M)
Gb per lane (@ 2x150bp)	>75Gb (usually ca 96Gb)

Whole genome resequencing of human genome

For resequencing of human genome on the HiSeq X instruments the cost is SEK 10 369. The price includes library preparation with Illumina TruSeq DNA PCR-free library prep kit and sequencing in one lane on HiSeq X to approximately 30x coverage.

Whole genome resequencing of other known genomes

For resequencing of other known genome on the HiSeq X instruments the cost included library preparation (for prices see 2.2 above) and sequencing to at least 15X coverage. The cost for one lane on the HiSeq X flow cell is SEK 9 396.

4. Illumina MiSeq

The Illumina MiSeq instrument produces much less data than the HiSeq instruments but can be used with longer read lengths. This can for example be useful for amplicon sequencing and de novo or resequencing of smaller genomes.

The v2 flow cell produces at least 10M read-pairs and comes in the following versions:

- 1x50bp, SEK 8 207
- 2x150bp, SEK 10 479
- 2x250bp, SEK 11 719

The v3 flow cell produces at least 18M read-pairs and comes in the following versions:

- 2x75bp, SEK 9 030
- 2x300bp, SEK 15 798