

The nCounter® Analysis system with FLEX configuration (nanoString Technologies) for:

- Gene expression analysis
- Copy number variation
- microRNA profiling

The nCounter® System from nanoString Technologies supports applications for gene expression analysis, copy number analysis, miRNA profiling and analysis of RNA/protein biomarkers. The system is flexible with the ability to detect RNA, miRNA and DNA in a variety of sample types, including tissue (fresh, frozen, formalin-fixed, paraffin-embedded (FFPE), cell lysates, blood, saliva, and single cell (requires minimal amplification).

The system provides a method for direct labelling of nucleic acid targets with single target-specific color-coded probes (nCounter reporter probes) without the use of reverse transcription or amplification. Up to 800 targets can be detected in a single reaction. The probe set, the CodeSet, can be pre-designed or custom-made. The CodeSet probes are about 100 bases in length. Therefore the system is very resistant to lower RNA quality and is suited for critical samples such as FFPE samples.

Workflow

1. The nucleic acids are hybridized to the selected CodeSet overnight. 12 samples can be processed simultaneously.
2. After hybridization the samples are placed on the automated fluidic handling nCounter Prep Station, where they are purified and subsequently immobilized in the sample cartridge.
3. The cartage is placed in the nCounter Digital Analyzer that collects data by taking images of the immobilized fluorescent reporters in the sample cartridge with a CCD camera through a microscope objective lens. Images are processed internally and the results are exported as a.csv file.
4. Download the free nCounter Analysis Software for QC, normalization and analysis of the data.

Service levels

“Hands-on” service

KIGene staff provides technical start up assistance and the users can after that book and operate the instruments themselves under our expert guidance.

“Hands-off” service

Researchers are responsible for purchase of CodeSets and Master Kit (consumables) directly from nanoString.

Samples should be diluted to the appropriate concentration depending on the Code Set of choice and placed in strip tubes in row order for efficient processing of batches of 12. For further sample submission requirements, please contact core staff.

<i>Price list for nanoString nCounter® analysis system</i>	
<i>“Hands on” service</i>	
Introduction course (users outside CMM)	1 200 SEK/user ^{1,2}
Introduction course (CMM users)	600 SEK/user ¹
1-12 samples/run*	2400 SEK/run ^{1,2}
<i>“Hands off” service</i>	
Expression or SNV analysis, 1-12 samples/run*	4500 SEK/run ^{1,2,*}
miRNA analysis, 1-12 samples/run*	5000 SEK/run ^{1,2,*}

*Master kit and Code Set are provided by the user.

¹The KI INDI fee will be added to the price for users within KI.

²An administrative fee of 30 % will be added for academic users outside KI and 50% for non-academic users. The indicated prices are exclusive of value-added tax