nCounter®
GX Human Kinase Kit

Product Highlights

Highly Curated
- Our expert bio-informaticists use a very rigorous process in selecting the most meaningful set of genes

Efficient
- Multiplexed assay profiles 522 human kinase genes in a single reaction

Cost-effective
- Gold-standard data at a fraction of the cost

Quick Turnaround Time
- Complete kit with all consumables ready to ship next day

nCounter® GX Human Kinase Kit

The nCounter GX Human Kinase Kit is a comprehensive list of 522 human genes known to be differentially expressed in the kinome.

With the nCounter GX Human Kinase Kit, scientists can leverage a pre-designed panel to accelerate their research and quickly generate expression data for a large panel of protein kinase-related genes.


The nCounter Human Kinase Kit represents 99% of the KinBase content for Human.

The final nCounter GX Human Kinase Kit consists of 522 protein kinase-related genes and 14 internal reference genes. For the gene list and additional information about this gene set, visit the nCounter Pre-built Panels product page at: www.nanostring.com.

Home > Products > nCounter Gene Expression CodeSets > Pre-built Panels
nCounter® Analysis System Overview

The nCounter Analysis System from NanoString offers a cost-effective way to easily profile hundreds of gene transcripts simultaneously with high sensitivity and precision. The digital detection of target molecules and high levels of multiplexing eliminate the compromise between data quality and data quantity, bringing better sensitivity, reproducibility, and linearity to your results. It is ideal for studying defined gene sets across a large sample set, e.g., microarray validation or NGS, pathway analysis, biomarker validation, and splice variation analysis.

The system utilizes a novel digital technology that is based on direct multiplexed measurement of gene expression and offers high levels of precision and sensitivity (<1 copy per cell). The technology uses molecular “barcodes” and single molecule imaging to detect and count hundreds of unique transcripts in a single reaction.

### Included

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<th>Genes List</th>
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*Internal Reference Genes

### System Performance

<table>
<thead>
<tr>
<th>Description</th>
<th>Specifications</th>
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<tbody>
<tr>
<td>Level of multiplexing</td>
<td>522 genes known to be differentially expressed in the human kinome</td>
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<tr>
<td>Recommended amount of starting material</td>
<td>100ng of purified total RNA, or lysate from ~10,000 cells</td>
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<tr>
<td>Sample types supported</td>
<td>Total RNA, cell lysates in GTC, FFPE-derived total RNA and PAXgene lysed whole blood, amplified RNA</td>
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<tr>
<td>Reaction volume</td>
<td>30 µL</td>
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<td>Limit of detection</td>
<td>0.5M spike-in control (~1 copy per cell); 90% of the time</td>
</tr>
<tr>
<td>Fold change sensitivity</td>
<td>&gt; 1.5 fold (&gt; 5 copies per cell) &gt; 2 fold change (&gt; 1 copy per cell)</td>
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<tr>
<td>Spike correlation</td>
<td>R² &gt; 0.95</td>
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<td>Linear dynamic range</td>
<td>7 x 10¹ total counts</td>
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<tr>
<td>Controls</td>
<td>6 positive and 8 negative in each reaction</td>
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</tbody>
</table>

### Ordering Information

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