nCounter®

Gx Human Inflammation Kit
A Gene Set You Can Count On

The nCounter GX Human Inflammation Kit is a comprehensive list of 249 human genes known to be differentially expressed in inflammation. The gene list represents a broad range of inflammation-related pathways, including:

- Chemokine
- Cytokine
- Interleukin
- Toll receptor
- Integrin signaling
- Oxidative stress response
- B cell activation
- T cell activation

This gene list was compiled by querying several public databases for inflammation-related genes. Each gene was verified to be differentially expressed under conditions leading to inflammation.

Verification was performed using MSigDB, a repository of gene expression data developed by researchers at the Massachusetts Institute of Technology and the Broad Institute. Other public databases were used to obtain functional gene expression information for each gene. The final nCounter GX Human Inflammation Kit consists of 249 inflammation-related genes and six 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


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, 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.

Product Highlights

Simple
- No need for cross-referencing databases

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

Efficient
- Multiplexed assay profiles 249 human inflammation-related 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
## Included

### Genes List

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<tr>
<th>Description</th>
<th>Quantity</th>
<th>Part Number (P/N)</th>
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<tbody>
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<td>nCounter GX Human Inflammation Kit</td>
<td>12 assays</td>
<td>XT-GXA-HIN2-12</td>
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<tr>
<td><em>Internal Reference Genes</em></td>
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