

## Accelerate Your Research with NanoString Panels

NanoString provides scientists with innovative and customizable tools from basic and translational research to diagnostic development. Pre-made panels are available for Gene Expression, Gene Fusions, miRNA, CNV, and Protein detection as well as custom project options for any species.

### Customizable Options

Customize your experiment using Panel-Plus to add up to 55 unique targets to any panel, or have our bioinformatics group design a custom project for any species for any gene expression target, splice variation, lncRNA, Fusion Gene, or Copy Number Variant

nCounter® Gene Expression Panels		
PanCancer IO 360™ Gene Expression Panels	Human & Mouse	750 cancer-related genes involved in the complex interplay between the tumor, microenvironment and immune response including 20 internal reference controls.
Breast Cancer 360™ Gene Expression Panel	Human	770 genes across 23 key breast cancer pathways and processes with 32 validated and novel signatures including expanded evaluation of breast cancer subtypes with PAM50 Signature, Triple Negative Breast Cancer Signature, and Claudin-Low Signature.
Tumor Signaling 360 Panels	Human & Mouse	780 genes covering the tumor, immune response, and microenvironment with an emphasis on dysfunctional cell signaling in cancer. Includes 20 internal reference controls.
CAR-T Characterization Panel	Human	770 CAR-T related genes plus 10 internal reference controls.
PanCancer Pathways Panels	Human & Mouse	770 genes for essential cancer pathways including 40 internal reference controls for the human panel & 20 for the mouse panel.
PanCancer Immune Profiling Panels	Human & Mouse	770 immune profiling genes for the identification of different immune cell types, key checkpoint inhibitors, cancer antigens, genes for measuring the immune response & up to 40 internal reference controls.
PanCancer Progression Panel	Human	770 genes involved in cancer progression including angiogenesis, extracellular matrix remodeling (ECM), epithelial to mesenchymal transition (EMT), metastasis including 30 internal reference controls.
Metabolic Pathways Panels	Human & Mouse	768 genes included for studying metabolism within the context of cancer, immunology, and metabolic diseases. Includes 20 internal reference genes for data normalization.
Human Organ Transplant Panel	Human	770 genes involved in the immune response to transplanted tissue, organ rejection, and tissue damage. Includes probes specific for the identification of BK Polyomavirus, Cytomegalovirus, and Epstein-Barr virus as well as 12 internal reference genes and annotations for immune cell type profiling.
Fibrosis Panels	Human & Mouse	770 genes across 51 annotated pathways involved in the four stages of fibrotic disease: initiation, inflammation, proliferation, and modification. Includes 10 internal reference controls.
Immunology Panels	Human & Mouse	594 human genes or 561 mouse genes for broad-based screening of innate & adaptive immune response for allergy, auto-immune response diseases & infectious disease immune response. Includes up to 15 internal reference controls.
Inflammation Panels	Human & Mouse	255 human genes or 254 mouse genes for focused screening of the inflammation response in general immunology research including allergy, auto-immune diseases & infectious disease immune response. Includes 6 internal reference controls.
Myeloid Innate Immunity Panels	Human & Mouse	696 human genes or 675 mouse genes with emphasis on the myeloid component of innate immunity, which is relevant to cancer, autoimmunity, & infectious disease.
Autoimmune Profiling Panels	Human & Mouse	770 genes for comprehensive profiling of immune system dysfunction, inflammatory signaling, tissue stress & damage, and disease association as they relate to autoimmune and chronic inflammatory disease.

### nCounter® Gene Expression Panels (continued)

Autoimmune Discovery Panel on Demand	Human	770 genes included for study of the gene expression profile of GWAS significant mutations in the top nine autoimmune diseases together with 230 immune response genes and 15 internal controls.
NHP Immunology Panel	Non-Human Primate	770 genes for vaccine testing, toxicity testing & organ transplant studies in non-human primates, including 16 internal reference controls.
Neuropathology Panels	Human & Mouse	770 neuropathology-related genes covering six fundamental themes of neurodegeneration: neurotransmission, neuron-glia interaction, neuroplasticity, cell structure integrity, neuroinflammation and metabolism. Includes 10 internal reference controls.
Neuroinflammation Panels	Human & Mouse	770 neuroinflammation-related genes involved in comprehensive assessment of 23 pathways and process representing immunity and inflammation, neurobiology and neuropathology, and metabolism and stress. Includes 13 internal reference controls.
Glial Profiling Panels	Human & Mouse	770 genes involved in glial cell biology: cell stress & damage response, pathways regulating glia, inflammation & peripheral immune invasion, glial cell homeostasis & activation, and neurotransmission. Includes 13 internal reference controls.
Alzheimer's Disease Panels	Human & Mouse	760 genes covering 23 different neural pathways, as well as the 30 modules discovered in the AMP-AD consortium study plus 10 internal reference genes for data normalization.

### miRNA Expression Panels - from miRBase v22

nCounter Human v3 miRNA	Human	827 miRNAs, 5 mRNAs, and 25 internal reference controls
nCounter Mouse v1.5 miRNA	Mouse	577 miRNAs, 4 mRNA probes, and 23 internal reference controls
nCounter Rat v1.5 miRNA	Rat	423 miRNAs, 4 mRNAs, and 25 internal reference controls

### CNV- Copy Number Variation

nCounter Human Cancer CN Panel	Human	87 most commonly amplified or deleted copy numbers in cancer.
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## nCounter Vantage 3D Portfolio

Explore 3D Biology™ Technology, NanoString's award winning technology for the simultaneous detection of RNA and protein. Designed for flexibility, select the right Vantage 3D targeted panels for either analyte type then detect and analyze them both at once.

### nCounter® Vantage 3D™ RNA Panels

Adaptive Immunity Panel	Human	192 genes to study T & B cell activation and signaling molecules, including 12 internal reference controls.
Innate Immunity Panel	Human	192 genes involved in host response, bacterial sensing, inflammation such as Toll-like receptor signaling, and related cytokines, including 12 internal reference controls.
Cancer Metabolism Panel	Human	192 unique genes related to cancer metabolism, including 12 internal reference controls.
Intracellular Signaling Panel	Human	192 unique genes related to signaling pathways in cancer immunology, including 12 internal reference controls.

### nCounter® Vantage 3D™ RNA Panels

Cellular Profiling Panel	Human	192 unique genes whose relative expression level is indicative of specific immune and related cell types, including 12 internal reference controls.
Wnt Pathways Panel	Human	192 unique genes related to the Wnt signaling pathways ( $\beta$ -catenin, PCP & Calcium-Ion dependent pathways), including 12 internal reference controls.
DNA Damage and Repair Panel	Human	192 unique genes related to DNA damage & repair pathways, such as base excision repair, nucleotide excision repair, mismatch repair, and translation synthesis, including 12 internal reference controls.
MAPK-PI3K Pathways Panel	Human	180 genes that measure activation of the MAPK and/or PI3K pathways, plus 12 internal reference controls.
RNA Heme Panel	Human	180 hematologic oncology related human genes, such as MAPK, MYC signaling, NF- $\kappa$ B, PI3K-AKT, and B cell & T cell receptor signaling, including 12 internal reference controls.

### nCounter® Vantage 3D™ Protein Panels

Immune Cell Profiling for Cell Suspensions	Human	30 immune cell surface proteins including CD4, CD8, PDL-1, plus 3 internal reference controls.
Solid Tumor for Cell Lysates	Human	28 solid tumor signaling pathway total and phospho-protein targets including AKT, MAPK, PRAS40, plus 3 internal reference controls.
Solid Tumor for FFPE	Human	26 key solid tumor signaling protein targets listed above, plus 3 internal reference controls.
Heme for Lysate	Human	36 key hematology-oncology signaling pathway proteins, including PI3K, BCR, and TCR signaling, plus 5 internal reference controls.
Heme for FFPE	Human	35 key hematology-oncology signaling pathway proteins listed above, plus 5 internal reference controls.

### nCounter® Vantage 3D™ RNA Fusion Panels

Lung RNA Fusion Panel	Human	63 probes: 35 for specific fusion detection, 24 for positional gene expression imbalance detection, and 4 internal reference controls.
Leukemia RNA Fusion Panel	Human	42 probes: 27 for specific fusion detection, 12 leukemia biomarkers, and 3 internal reference controls.

For more information, please visit [nanosttring.com](https://nanosttring.com)

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