



Accelerate Your Research with nCounter® Panels

Bruker provides scientists with innovative and customizable tools from basic and translational research to diagnostic development. Premade panels are available for Gene Expression and miRNA 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.

Oncology		
PanCancer IO 360™ Panels	Human & Mouse	750 cancer-related genes involved in the complex interplay between the tumor, microenvironment and immune response including 20 internal reference controls. Panel Standard available.
Breast Cancer 360™ 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. Panel Standard Available.
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. Panel Standard Available.
Canine IO Panel	Canine	800 genes across 47 annotated pathways involved in the immune response of canines to cancer immuno-oncology treatments including 20 internal reference controls. Panel Standard Available.
ADC Development Panel	Human & Mouse	770 genes that address essential biological questions relevant to each stage of ADC development. Includes 20 internal reference controls
TCR Diversity Panel	Human	129 genes including T cell receptor variable and constant regions and other T cell markers, includes 10 internal reference genes. Panel Standard Available.
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. Panel Standard Available.
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. Panel Standard Available.
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.



Immunology

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.
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. Panel Standard Available
Host Response Panels	Human & Mouse	785 genes across 50+ pathways involved in the five elements of the pathogen host response (host susceptibility, interferon response, innate immune cell activation, adaptive immune response, & homeostasis). Includes 12 internal reference controls. Panel Standard Available.
Immune Exhaustion Panels	Human & Mouse	785 genes involved in immune exhaustion of T cells, B cells, and NK cells, including those related to immune activation, immune suppression, immune status, immune checkpoints, epigenetics, and metabolism & microenvironment. Includes 12 internal reference controls. Panel Standard Available.
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. Panel Standard Available.
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. Panel Standard Available.
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.

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

Neuroscience

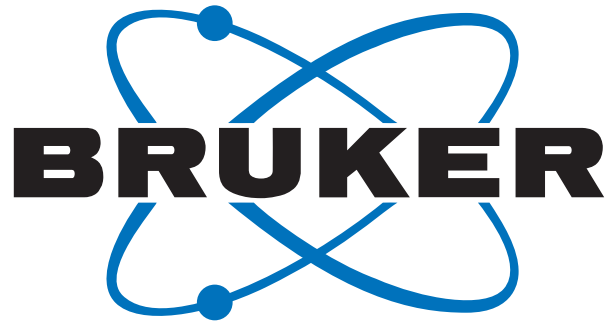
Neuropathology Panels	Human & Mouse	770 neuropathology-related genes covering six fundamental themes of neurodegeneration: neurotransmission, neuron-glia interaction, neuroplasticity, cell structure integrity, neuroinflammation and metabolism. Includes 10 internal reference controls.
Neuroinflammation 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. Available only as a custom panel.

Cell & Gene Therapy

CAR-T Characterization Panel	Human	770 CAR-T related genes plus 10 internal reference controls. Panel Standard Available.
Gene Therapy Optimization Panels	Human & Mouse	800 genes covering processes known to impact gene therapy development and manufacturing. Includes 12 internal reference controls. Panel standards available.
Stem Cell Characterization Panels	Human & Mouse	770 genes involved in stem cell biology: deeply characterize and optimize stem cell development by evaluating viability, confirming functionality and assessing stem cell health. Includes 12 internal reference controls.
TCR Diversity Panel	Human	129 genes including T cell receptor variable and constant regions and other T cell markers, includes 10 internal reference genes. Panel Standard Available.

Multi-market

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.
CVD Pathophysiology Panels	Human & Mouse	800 genes covering biology related to cardiovascular function and disease (heart disease, atherosclerosis, hypertension). Includes 10 internal reference controls. Panel Standards Available.



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