



NanoString nCounter Assay Services

Perfect for Characterization of Functional Genomic Landscape

nCOUNTER® ASSAYS

nCounter technology is ideal for a wide range of discovery and translational research applications, including gene expression analysis, tumor profiling, immuno-oncology profiling, gene fusion analysis, single-cell gene expression analysis, miRNA expression analysis, copy number variation (CNV) analysis, lncRNA expression analysis, and ChIP-String expression analysis.

Multiple analytes can be profiled within a single experiment, allowing for maximum flexibility on projects where simultaneous digital detection of RNA, DNA, and protein is paramount.

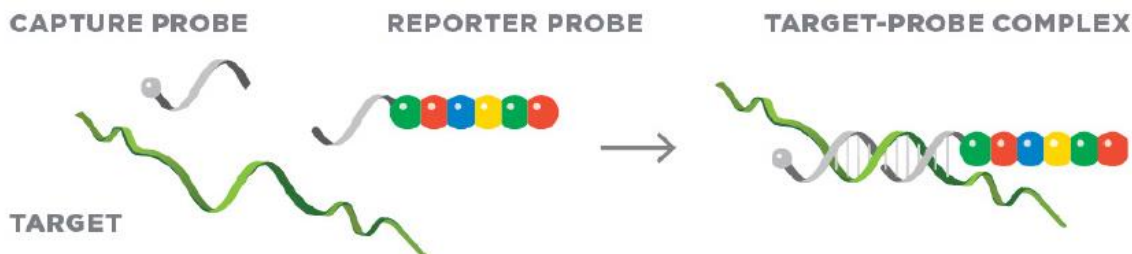
nCounter assays make sample analysis a simple process by limiting experimental variables. This results in precise measurements of gene expression, enabling rapid data acquisition of targets of interest.



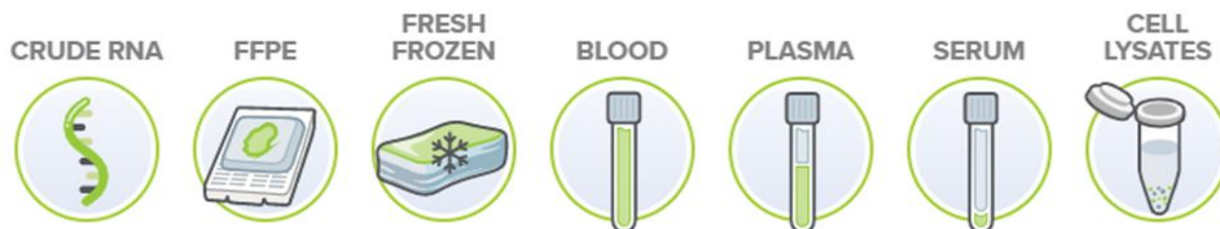
HOW IT WORKS

nCounter® technology is based on digital detection and direct molecular barcoding of individual target molecules using a unique probe pair.

Digital images are processed within a nCounter instrument and the Reporter Probe counts are tabulated in a CSV file for convenient data analysis with NanoString's complimentary nSolver™ Analysis Software or an application of choice.



CodeSet chemistry: capture and reporter probes bind to the target



nCounter assay is compatible with most sample types

nCOUNTER ASSAY BENEFITS

- ✓ Cost-effective automated solution for multiplex analysis of up to 800 targets (gene and protein)
- ✓ Ready-to-use expertly curated gene expression panels. Each multiplex panel contains up to 770 genes and can be customized by adding up to 55 additional unique targets.
- ✓ Flexibility: panels can be customized by adding extra targets
- ✓ Highly reproducible data requiring no amplification, cDNA conversion, library prep or technical replicates
- ✓ Fast sample prep: assays can be performed directly on cell lysates or tissue homogenates. RNA purification is optional

- ✓ Simple workflow with limited number of steps, improving the reliability of results
- ✓ Highly precise measurements of gene expression (miRNA, RNA, CNV)
- ✓ Streamlined data analysis with results in less than 24 hours

BROAD SAMPLE COMPATIBILITY

- ✓ nCounter is compatible with most sample types, including even decades-old FFPE
- ✓ It produces high quality data that would otherwise be difficult to produce with technologies that rely on high sample input
- ✓ Consistent results can even be generated for longitudinal studies with a high degree of confidence on clinical-grade (often degraded) samples

GENE EXPRESSION PROFILING WE CAN COUNT ON



SAMPLE REQUIREMENTS

- ✓ Compatible with total RNA, FFPE, cell lysate, PBMC, plasma, serum, and more
- ✓ Low input material required: as little as 25 ng or 5000 cells
- ✓ Primer pools available for use with multi target enrichment for low input material