

nCounter[®] Pro

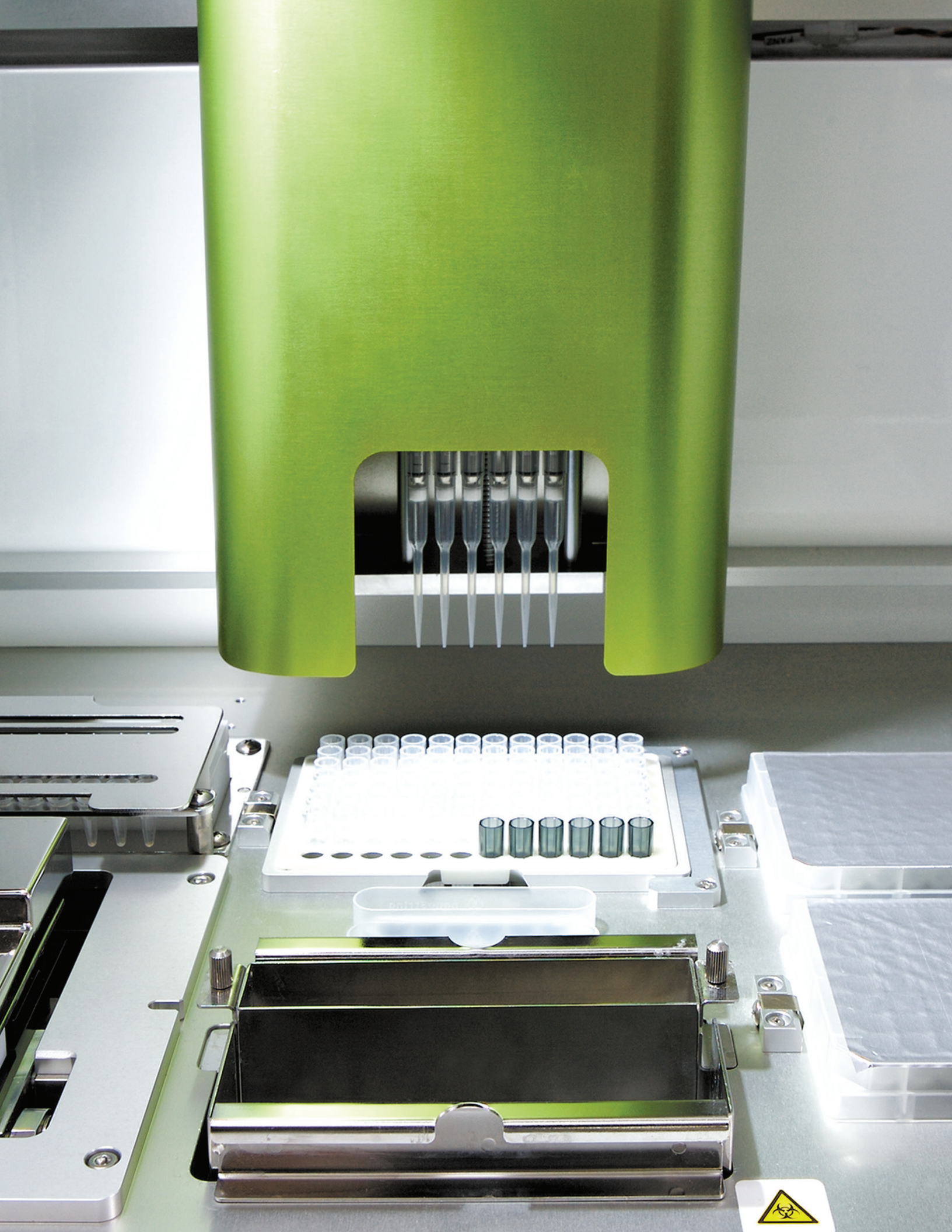
Analysis System



nanosttring.com

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.

nanosttring[®]



In a world of uncertainties ... **gene expression you can Count On.**

Protect the integrity of your data using a highly reproducible technology with a simple workflow and advanced security features.

Simple

- Easy-to-learn workflow accelerates technician training
- Walk-away automation frees up time for other projects
- Publication ready results in <24 hours with less than 15 minutes of hands-on time

Secure

- Enables a 21 CFR Part 11 environment, part of an overall data security ecosystem
- Locked down system resilient to many types of attacks that threaten user data
- Confidently transfer data between the system and the local area network

Reliable

- Digital gene expression eliminates the need for technical replicates
- Robust performance on difficult sample types including FFPE, biofluids and lysates
- Zero enzymatic steps; no amplification, cDNA conversion or complicated sample preparation

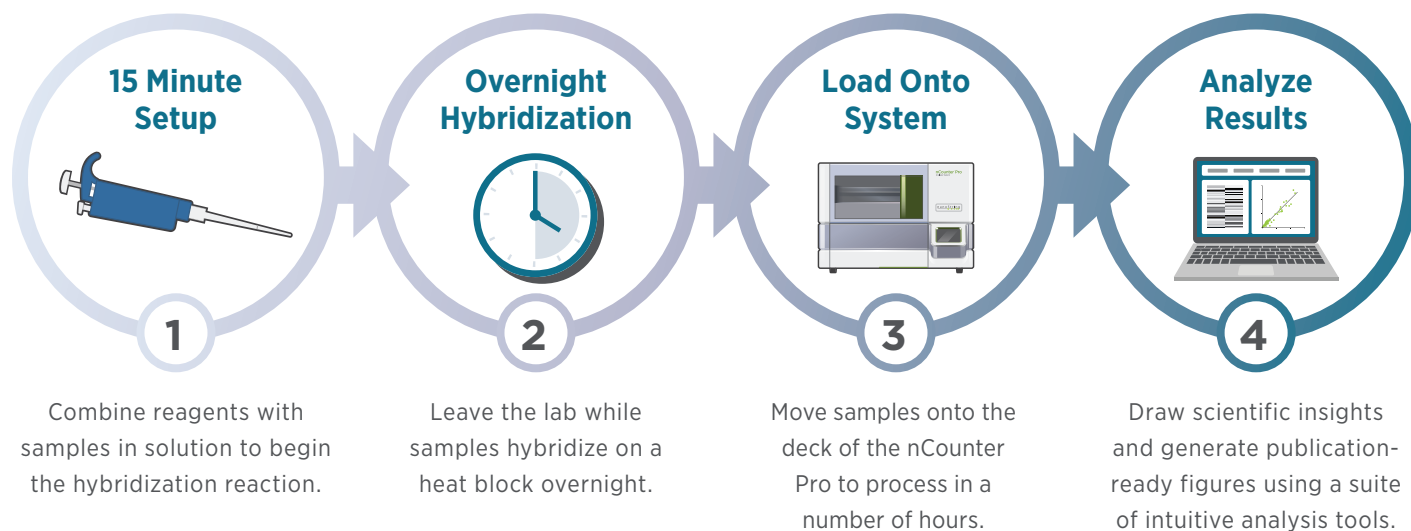
Comprehensive

- Extensive menu of ready-to-ship panels designed with input from experts in the field
- Option to customize existing panels with up to 55 user-defined targets with Panel Plus
- Efficiently process high volumes of samples using PlexSet reagents

Simple

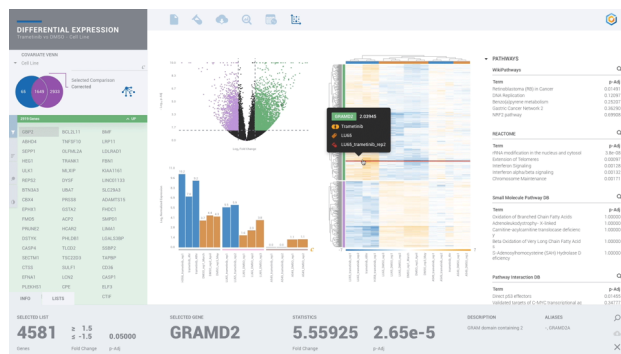
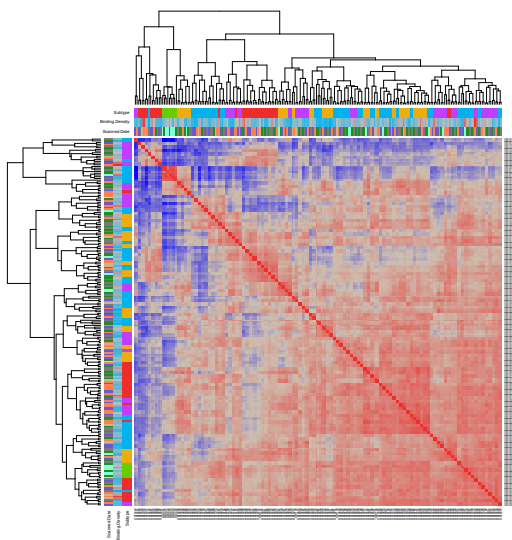
Streamlined Workflow Automation

The nCounter Pro's seamless workflow enables you to regain independence over your research. Time spent on pipetting, monitoring systems, and getting lost in data can be spent doing what matters most – advancing your research. The workflow features a limited number of steps, reducing potential sources of variability, improving the reliability of results, and making training technicians easy.



Data Analysis Accelerated

NanoString offers a suite of intuitive analysis tools that enable you to gain insights from your data and share publication-quality figures and statistical outputs faster than ever.



nSolver™ Analysis Software

An integrated analysis platform for storage, custom QC, and normalization of nCounter data. Generate highly-customized exports, basic statistical outputs, and figures quickly and easily with no incremental cost.

nCounter Advanced Analysis

A free, wizard-based add-on to nSolver for deeper data insights based on robust R statistics. Examine experimental trends, identify pathway-specific responses, and profile immune cell populations in shareable HTML reports.

Data analysis services for large projects are available. For more information contact:

DAS@nanosttring.com

ROSALIND® Platform

A cloud-based system that enables scientists to analyze and interpret differential gene expression data without the need for bioinformatics or programming skills. ROSALIND makes analysis of nCounter data easy with guided modules for:

- Normalization
- Quality Control
- Individual Pathway Analysis
- Cell Type Profiling
- PlexSet™ Experiments
- Differential Expression
- Gene Set Analysis

nCounter customers can access ROSALIND free of charge at rosalind.bio/nanosttring

Secure

Advanced Cybersecurity Controls

The nCounter Pro includes cybersecurity features necessary to protect the integrity of your data and build a holistic data security environment.



Reliable

Exceptional Reproducibility & Performance

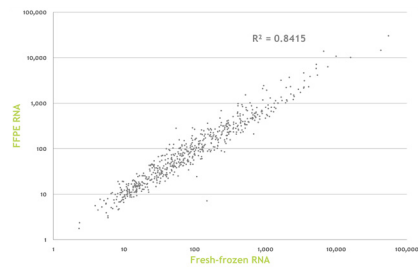
Highly multiplexed single molecule counting



nCounter technology uses unique optical barcodes that hybridize to each target to enable digital counting of individual oligonucleotides without any enzymatic steps. Each barcode is made up of six fluorophores enabling highly multiplexed, single molecule counting.

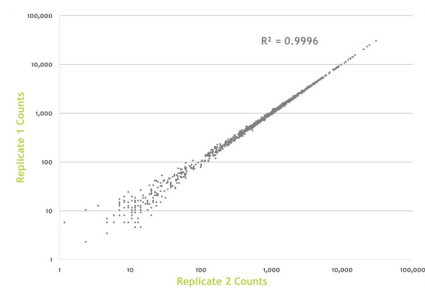
Superior performance on FFPE tissue sections

nCounter assays work well on RNA samples from fresh or frozen tissue, biofluids, and even cell lysates. High quality results can be achieved from degraded RNA from FFPE tissue sections, because nCounter probes only require a 100 base pair region for hybridization.



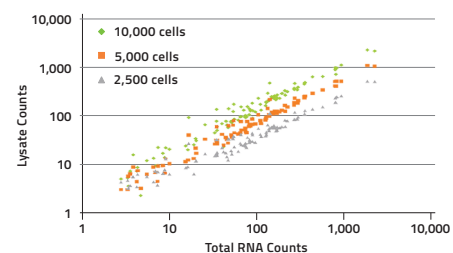
Reproducibility over a wide dynamic range

Direct, digital counting removes potential sources of variability from reverse transcription and amplification, enabling high precision and reproducibility over a wide dynamic range. Save reagents, sample, and money by eliminating technical replicates and confidently detect both high and low expressing genes.



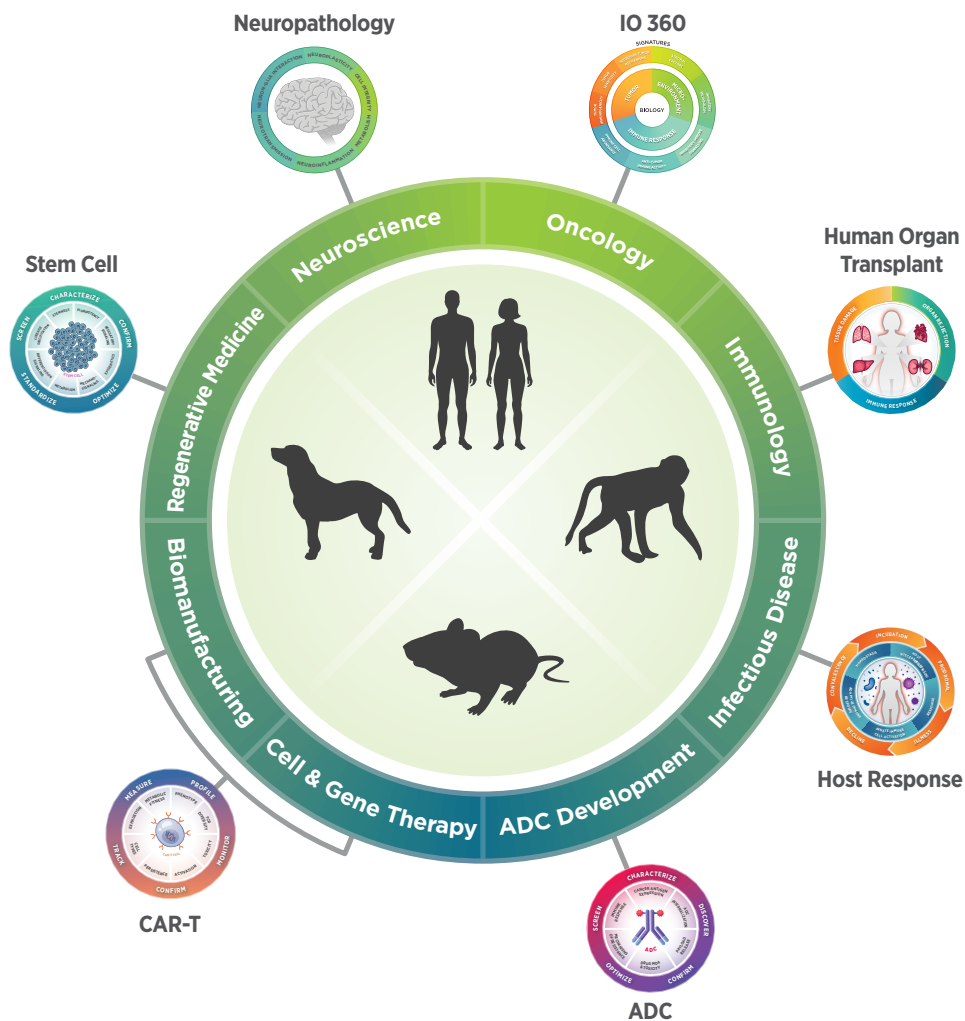
Compatible with cell lysates

Zero enzymatic steps mean you can confidently analyze samples directly from cell lysates without any RNA purification, saving time and reagents.



Comprehensive Extensive Panel Menu

nCounter off-the-shelf gene expression panels are available for a wide variety of biological pathways and research areas. All panels are created with input from industry experts and current research topics and are updated regularly.



Panel Pro Selection Tool

Check out the Panel Pro Selection Tool to compare gene content and identify the right panel for your research at nanosttring.com/PanelPro

Custom Solutions

Researchers have the flexibility to tailor gene expression assay content to meet individual project needs.

Panel Plus

Add up to 55 user-defined targets to an existing panel

Custom CodeSet

Targets: 20-800

Elements™ TagSets

Targets: 12-216
Optimized for validation projects

PlexSet™ Reagents

Targets: 6-96
Optimized for screening projects



nanoString
TECHNOLOGIES

nCounter Pro

Product Specifications

FEATURE	SPECIFICATION
Level of multiplexing	800+ targets
Recommended amount of starting material (dependent on assay and sample type)	RNA: 1ng-100ng DNA: 5ng-300ng
Sample types supported	Total RNA, cell lysates in GTIC, FFPE-derived total RNA and PAXgene-lysed whole blood
Reaction volume	Up to 30 μ L
Limit of detection 0.5 fM spike-in control	15 zeptomole spike-in control in 15 μ L hybridization
Fold change sensitivity	> 1.5-fold (if > 5 copies per cell) >2-fold (if > 1 copy per cell) $R^2 > 0.95$
Spike in correlation	$R^2 > 0.95$
Linearity	Linear regression correlation coefficient $R^2 > 0.95$
Linear dynamic range	6×10^5 total counts
Prep Station throughput	12 lanes per 2.5 hours*
Digital Analyzer throughput	12 samples per 2.7 hours
Controls	Assay dependent

* Option to increase capacity by adding a second Prep Station; accelerate cell line screening and high-throughput applications by running multiple samples per lane with nCounter PlexSet reagents

Sample Throughput

Samples per lane	1 RUN PER DAY		3 RUNS PER DAY	
	1 Prep Station	2 Prep Stations	1 Prep Station	2 Prep Stations
1	12	24	36	72
8	96	192	288	576



For more information, please visit nanosttring.com

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