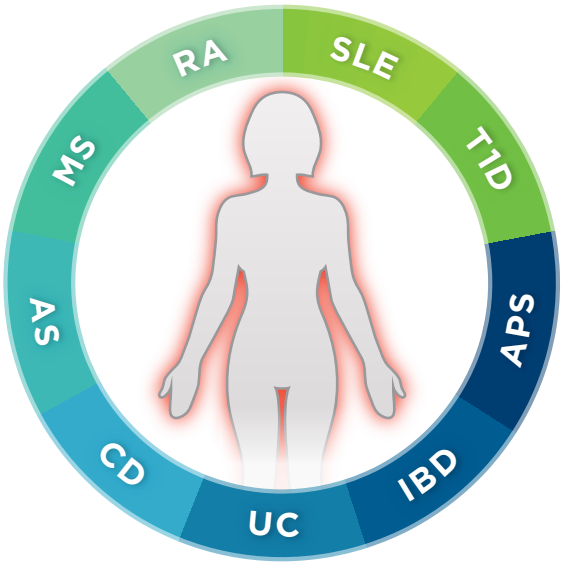
nCounter® Autoimmune Discovery
Gene Expression Panel



Applications

- The function of disease associated genes and germ line variants
- Identify novel therapeutic targets and biomarkers
- Investigate relationships between gene variant expression patterns and immune response

The nCounter Autoimmune Discovery Gene Expression Panel is designed to enable researchers to discover links between known AI disease associated germline variants and their gene expression. The genes in this panel were selected across nine of the top autoimmune diseases based on both data driven and biological selection methods in collaboration with leading autoimmune researchers.

Product Highlights

- 770 genes representing disease associated variants across nine top autoimmune diseases
- Customizable with panel-plus option – add up to 30 user- defined genes
- Streamlined workflow with just 15 minutes total hands-on time

Feature	Specifications
Number of Targets	770 (Human) including internal reference genes
Standard Input Material (No amplification required)	25 ng - 300 ng
Low Input Material	As little as 1 ng with nCounter Low Input Kit (sold separately)
Sample Type(s)	FFPE-derived RNA, total RNA, fragmented RNA, cell lysates, PBMCs, whole blood/plasma, sorted cells
Customizable	Add up to 30 unique genes with Panel-Plus
Time to Results	Approximately 24 hours
Data Analysis	nSolver™ Analysis Software

Autoimmune Discovery Panel Gene Content

Genes were selected and annotated for evidence of association in nine autoimmune disorders and human immune response. All genes considered for possible inclusion in the panel were selected based on many criteria including both data driven and biological selection methods. The initial list of disease associated genes was curated from studies available through ImmunoBase (www.immunobase.org). Some genes were also selected from GWAS results published in high-impact journals. All variants associated with chosen genes reach a minimum GWAS significance of 5 x 10-8. Gene to variant association was as annotated in ImmunoBase or specific publications. An in-depth multi-step analysis of each gene was further performed to predict performance on the nCounter System in unstimulated and stimulated conditions across a variety of sample types.

Disease Type Association	Description	Genes
Multiple Sclerosis	Demyelinating disease of the nervous system	99
Rheumatoid Arthritis	Chronic inflammatory disorder of joints	91
Systemic Lupus Erythematosus	Inflammation and damage to various body tissues	53
Type 1 Diabetes	Disease that causes damage to beta cells in the pancreas	43
Ankylosing Spondylitis	Chronic inflammatory disorder of the spine	41
Celiac Disease	Immune response to gluten that damages small intestine	250
Ulcerative Colitis	Disease causing inflammation and ulcers in large intestine	199
Inflammatory Bowel Disease	Inflammation of the digestive tract	251
Polyglandular Syndrome	Deficiency in function of multiple endocrine glands	48
Other Immune Response	Human immune response genes	230

Ordering Information

Gene Expression Panel CodeSets arrive ready-to-use and generally ship within 24-hours following purchase.

Product	Product Description	Quantity	Catalog Number
nCounter Human Autoimmune Discovery Panel	Includes 770 genes, including 15 internal reference genes for data normalization	12 Reactions	XT-CSO-HAID1-12
nCounter Master Kit (Max or FLEX Systems) Reagents and Cartridges	Reagents, cartridges, and consumables necessary for sample processing on nCounter MAX and FLEX Systems	12 Reactions	NAA-AKIT-012
nCounter SPRINT Cartridge 1 Cartridge, 12 lanes	Sample Cartridge for nCounter SPRINT System	12 Reactions	SPRINT-CAR-1.0
nCounter SPRINT Reagent Pack	nCounter SPRINT Reagent Pack containing Reagents A, B, C, and Hybridization Buffer	192 Reactions	SPRINT-REAG-KIT

To view the complete gene lists for the nCounter Autoimmune Discovery Panel visit: nanostring.com/product/aidiscovery

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