

## Vantage 3D RNA:Protein Heme Assay for Lysate

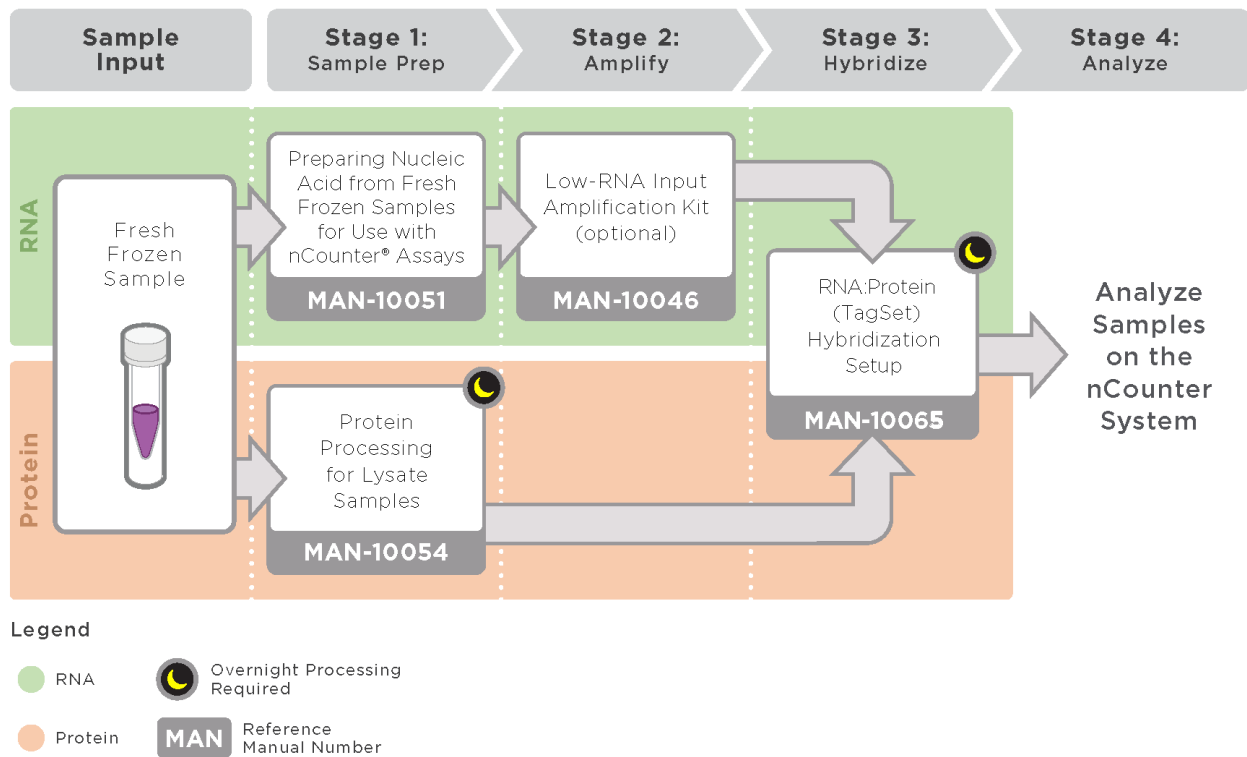
The nCounter® Vantage 3D RNA:Protein Heme Assay for Lysate simplifies RNA and protein expression analysis with curated content covering 192 RNA targets (including 12 reference controls) and 42 total phospho-proteins. This highly multiplexed assay is capable of simultaneously characterizing RNA and protein with minimal sample input and integrated data analysis.

Protein detection in the Vantage 3D RNA:Protein Heme Assay utilizes antibodies specific to proteins of interest that have been barcoded with unique synthetic DNA oligonucleotides. Each DNA oligonucleotide is then recognized by a unique Reporter probe that contains a fluorescent barcode.

All analytes are imaged and counted simultaneously by the nCounter Analysis System to provide a direct, digital readout of RNA and protein expression.

Learn more about [3D Biology™ Technology](#)

### Product Workflow



**Figure 1.** Workflow for the Vantage 3D RNA:Protein Heme Assay for Lysate

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## Materials and Supporting Documents

**Table 1.** Materials provided in the Vantage 3D RNA:Protein Heme Assay for Lysate Kit

Kit	Reagents	Storage
nCounter Vantage 3D™ RNA:Protein Heme Assay for Lysate (Vantage 3D™ RNA Heme Panel and Vantage 3D™ Protein Heme Panel for Lysates (R)) Catalog #: <a href="#">VRXC-HEME-12</a> and <a href="#">VPRXC-HHML-12</a>	RNA	
	RNA Probe A	-80°C
	RNA Probe B	-80°C
	RNA TagSet	-80°C
	Protein	
	Protein TagSet (R)	-80°C
	Antibody Mix	-80°C
	Buffer WS	4°C

**NOTE:** Please reference the manuals listed in Figure 1 and Table 2 for additional required reagents not supplied by NanoString.

**Table 2.** Supporting Documents

Step	Manual	Protocol
Nucleic Acid Extraction	<a href="#">MAN-10051</a>	<a href="#">Preparing Nucleic Acid from Fresh/Frozen Samples for Use with nCounter Assays</a>
Protein Preparation	<a href="#">MAN-10054</a>	<a href="#">Protein Processing for Lysate Samples</a>
Sample Amplification	<a href="#">MAN-10046</a>	<a href="#">Low-RNA Input Amplification Kit</a>
Hybridization	<a href="#">MAN-10065</a>	<a href="#">RNA:Protein (TagSet) Hybridization Setup</a>

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