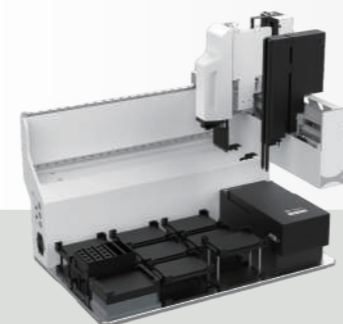
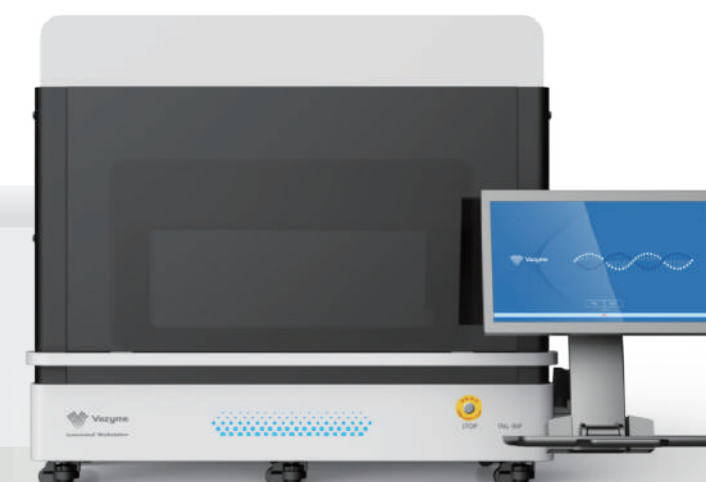


Automated Solutions for A Smarter Tomorrow

Automatic Nucleic Acids Extraction Instrument



PANDA Mini Liquid Handling Workstation



Automated Liquid Handling Workstation

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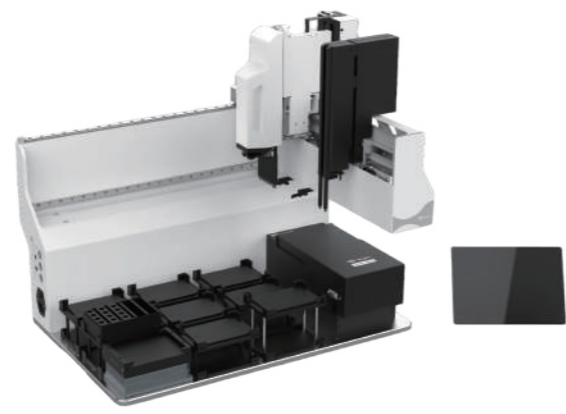
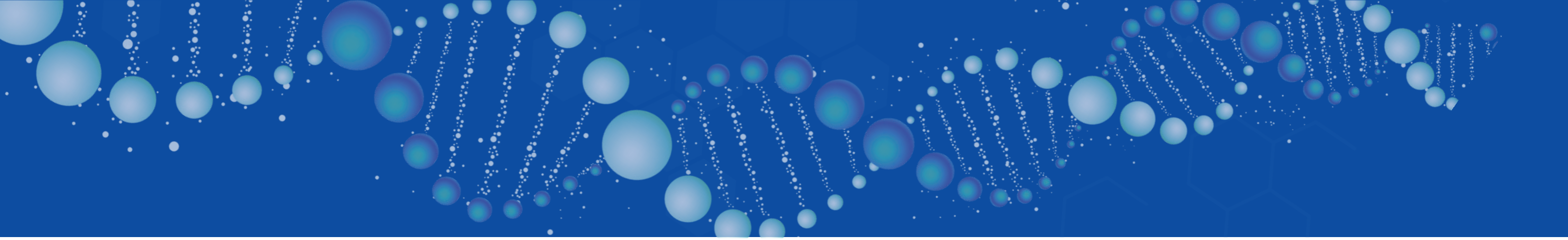
customerservice@yamato-usa.com

www.yamato-usa.com

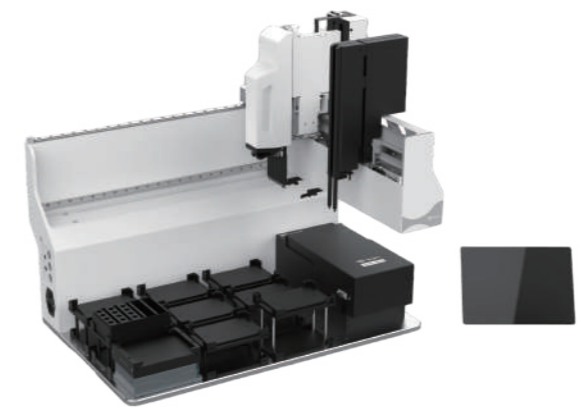
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For Science For Health



#VNL-10P
PANDA Mini Liquid Handling Workstation



#VNL-10P
PANDA Mini Liquid Handling Workstation

Sample
Extraction

Library
Preparation

Sequencing

Input
Normalization

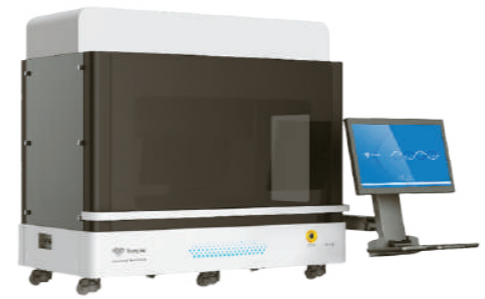
Library
Pooling



#VNP-32P
Automatic Nucleic Acid
Extraction Instrument



#VNP-96P
Full-automatic Nucleic Acid
Extraction Instrument



#VNL-96P
Automated Liquid Handling
Workstation

High Flexibility

Flexible Instruments for Your Custom Automation

Automatic Nucleic Acid Extraction Instrument Solution

#VNP-32P

Automatic Nucleic Acid Extraction Instrument



#VNP-96P

Full-automatic Nucleic Acid Extraction Instrument



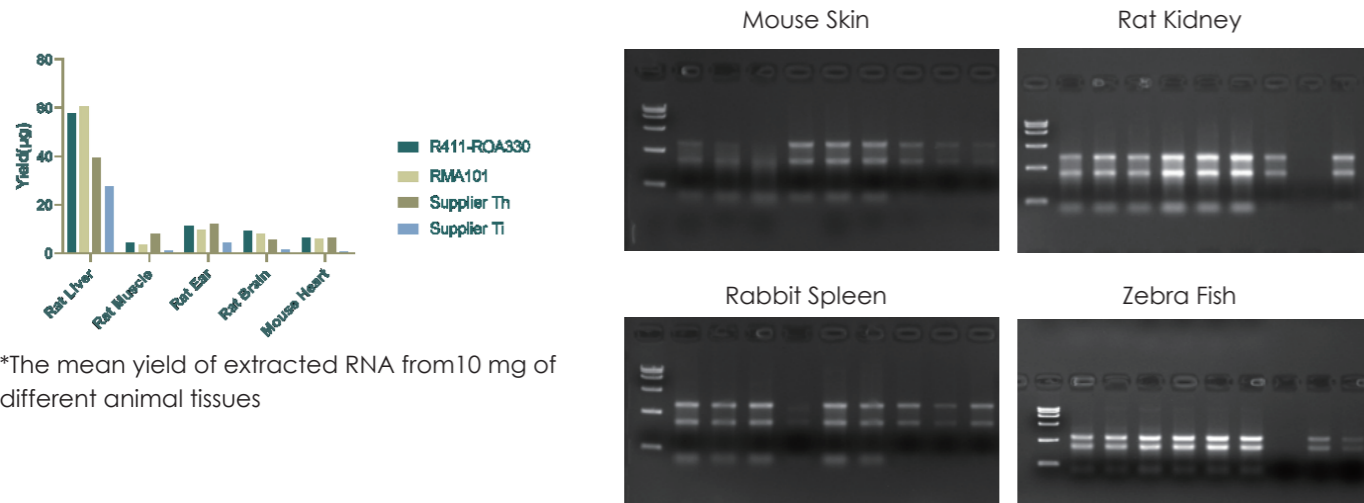
Features

- Efficient Extraction:** Permanent magnet material, and strong adsorption magnetic beads effectively avoid magnetic beads residue
- Flexible & Convenient:** Touchscreen interface, pre-set programs, and one-key startup enable DNA/RNA co-extraction
- Precise Design:** Deep well heating tank for more accurate temperature control. Screw design, high-precision and stable
- Power-off Protection:** After power is restored, the instrument resumes operation automatically, preventing sample loss caused by unexpected outages

Parameter	VNP-96P	VNP-32P
Principle	Magnetic Beads Method	
Sample Throughput	1-96	1-32
Consumables	96 deep well plate or 24 deep well plate	96 deep well plate
Processing Volume (μl)	96 deep well plate: 20-1000 μl 24 deep well plate: 200 μl-5 ml	20-1000 μl
Difference Between Purification Repeats	CV≤5%	
Heating Temperature	Room temperature - 120°C	
Temperature Accuracy	±1°C	
Operation Interface	8-inch color touch screen, can be connected to external mouse	
Internal Procedures	Save 1000 programs	Save 500 programs
Program Management	Add, Edit, Save as, Delete, Program Mode	
Instrument Interface	3 Type A USB, 1 Ethernet port, 1 DB9 debugging interface	
Network	Wi-Fi function	
Disinfection	UV disinfection	
Maximum Input power	AC 100-240 V, 50Hz/60Hz, 500 W	500 W
Dimensions (W×D×H)	750 mm× 495 mm×525 mm	412 mm×410 mm×430 mm
Weight (kg)	70 kg	30 kg

Performance of Automatic Nucleic Acid Extraction Solution

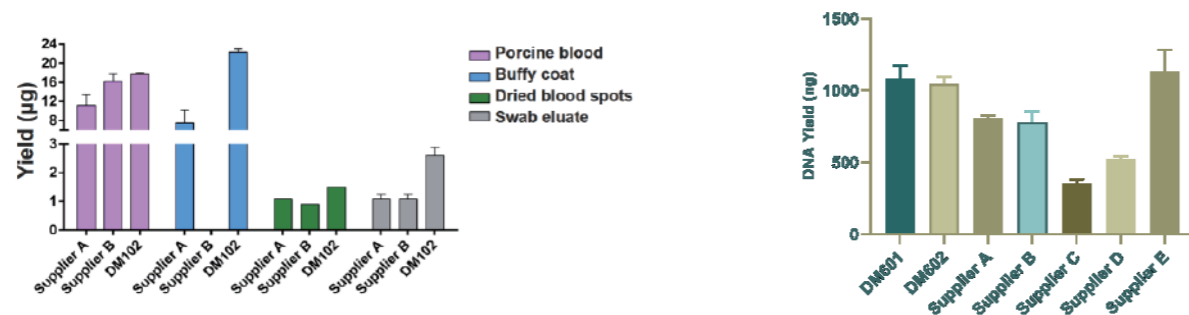
• Performance of Diverse Vazyme RNA Extraction Kits



*The mean yield of extracted RNA from 10 mg of different animal tissues

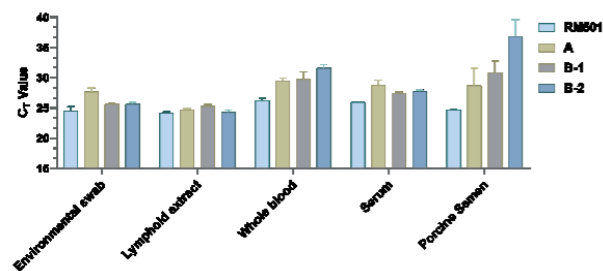
*Gel band of extracted RNA from different animal tissues with #ROA3302-02-VAMNE Magnetic Universal Total RNA Kit

• Performance of Diverse Vazyme DNA Extraction Kits

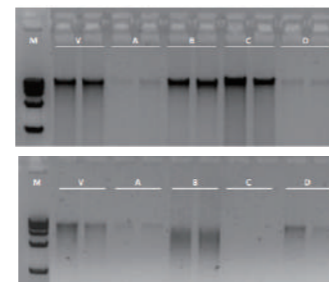


*gDNA yields from different samples with different kits

*DNA yields of extracted mouse spleen paraffin section with different kits

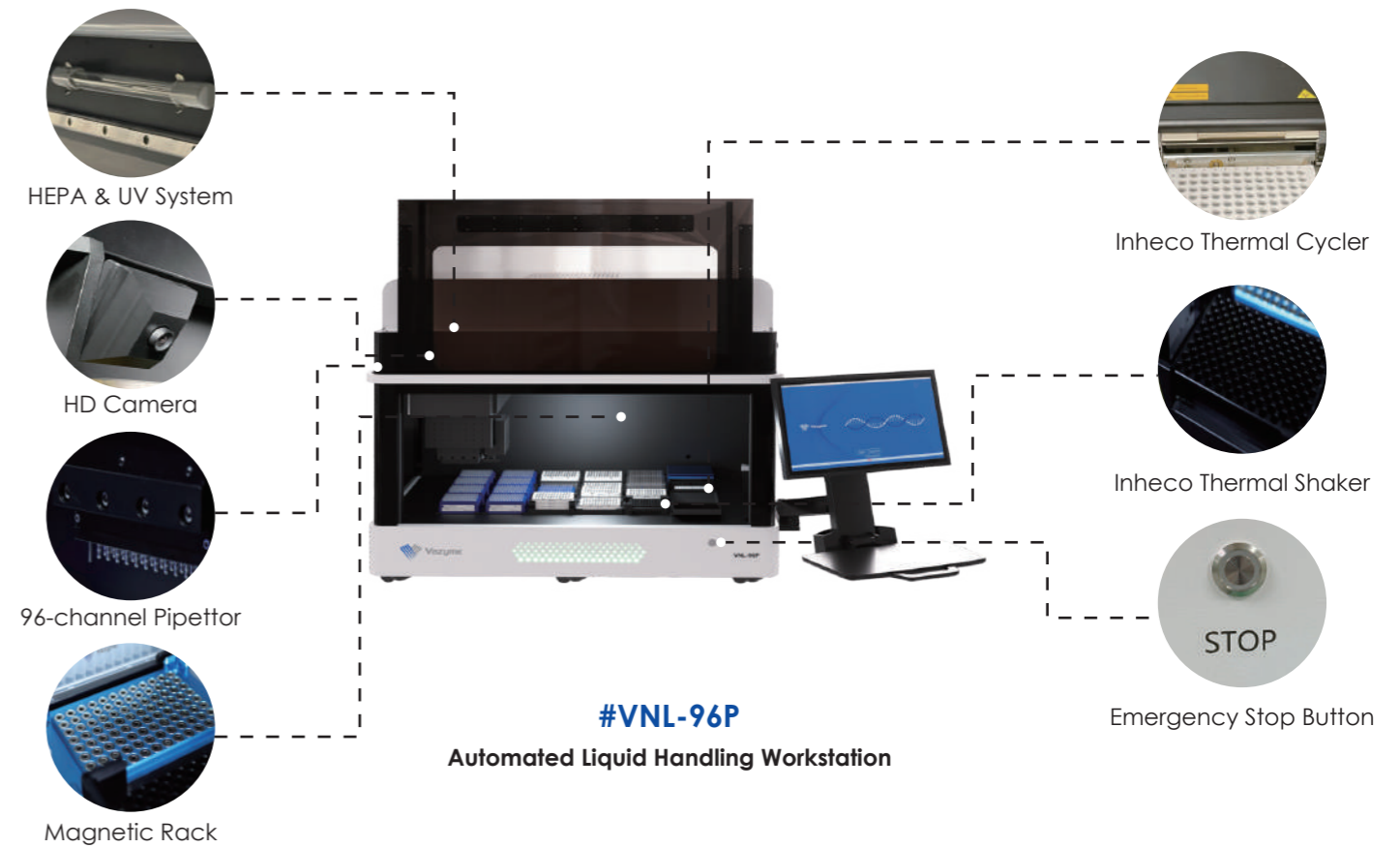


*CT Value of different samples extracted from Vazyme #RM501-Virus DNA/RNA Extraction Kit 3.0 and other similar kits



*Gel band of extracted DNA from human stool (left) rhizosphere soil (right) with #DMA5101-DMA5103-VAMNE Stool/Soil DNA Extraction Kit

Automated Liquid Handling Workstation Solution



#VNL-96P
Automated Liquid Handling Workstation

Top Values For You



High Precision and Accuracy



Walk-Away Operation



Easy-to-Operate Software



One-Stop Solution

Simplified Operation

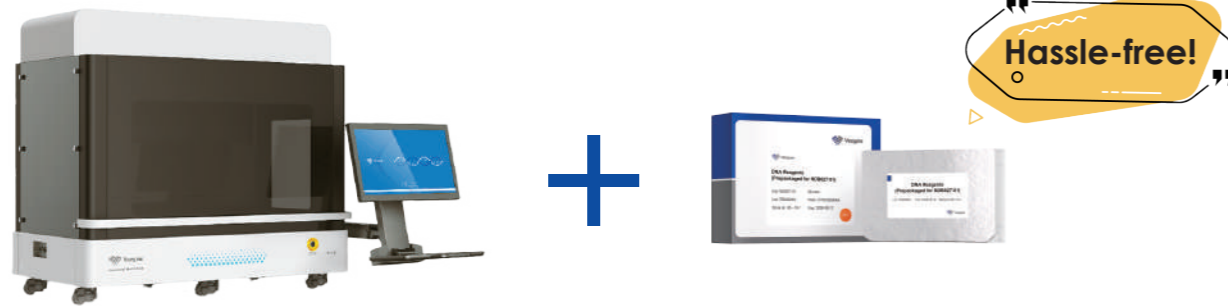
Parameter Confirmation

Vazyme Script Validation

Client Script Training

Operation and Support

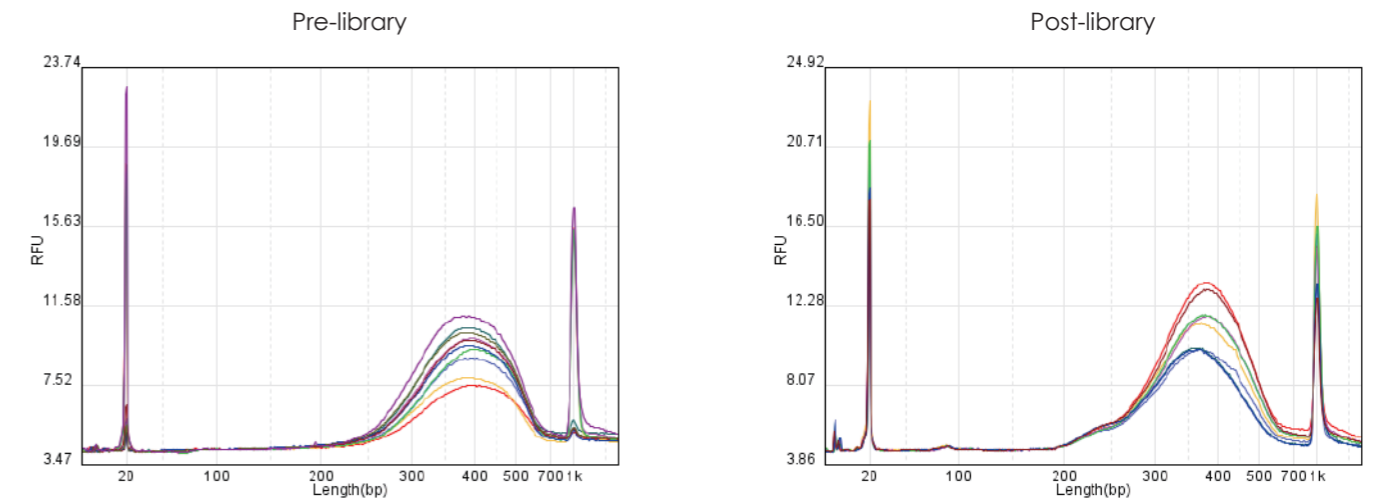
Hassle-free with Plate-Based Reagent



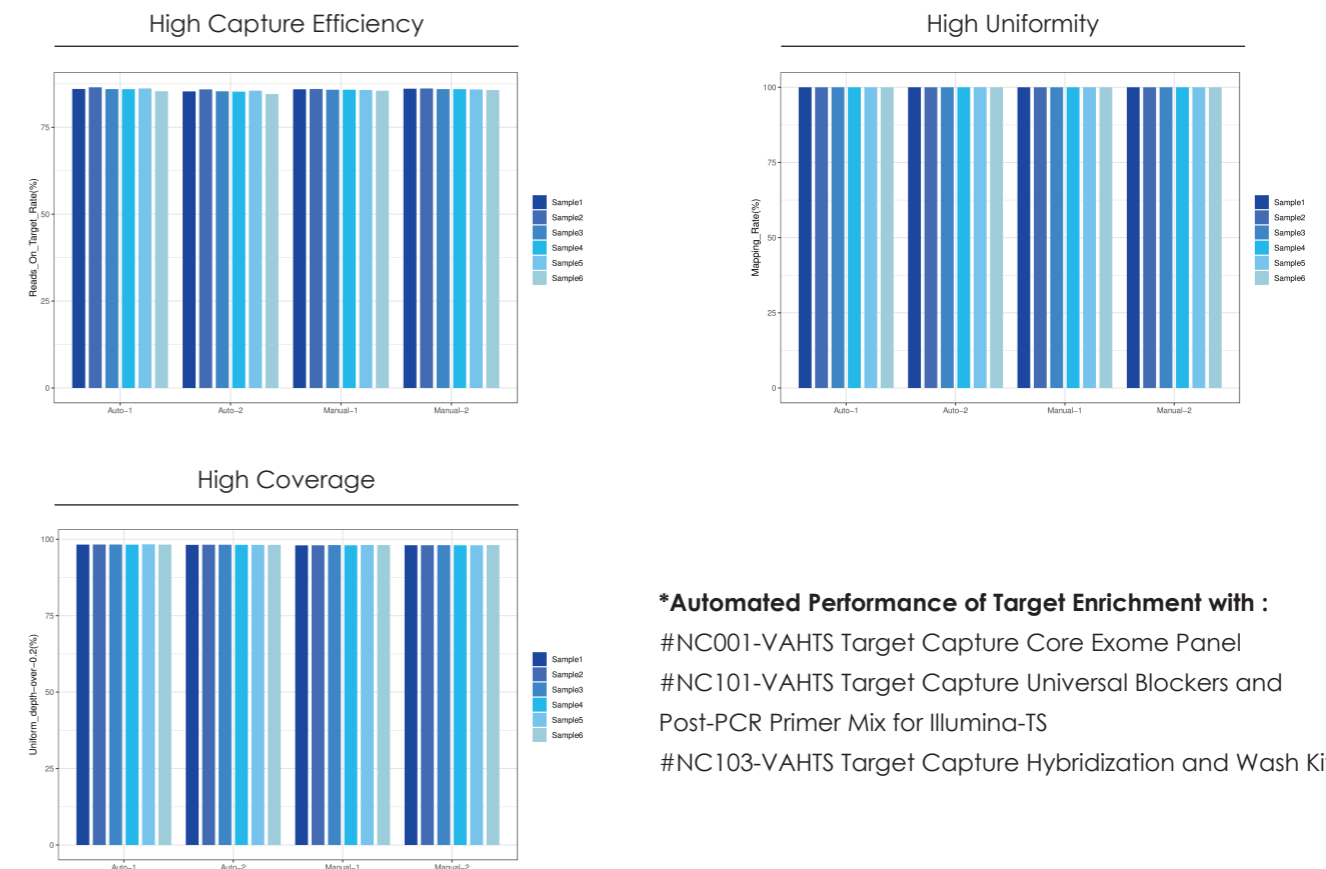
Indicator	Parameter	Indicator	Parameter
Size(L*W*H)	1224*753*1111 mm (Excluding Wall-mounted Computer)	Weight	274 kg
Plate Capacity	22	Throughput	96
Principle of Pipetting	Air Replacement	Range of Pipetting	2-200 μ l
Pipetting Accuracy	2 μ l: <5 % 5 μ l: <2 % 50 μ l: <1 % 150 μ l: <1 %	Pipetting Precision	2 μ l: \pm 10 % 5 μ l: \pm 2.5 % 50 μ l: \pm 1.5 % 150 μ l: \pm 1 %
Ultraviolet Disinfection System	\geq 100,000 μ W.s/cm ²	Thermal Cycler Temperature Control	Temperature Control: 4-99°C (\pm 0.5°C); Heated Lid: 30-115°C
Independent Temperature Control Module	2 Sets; 4-95°C	Oscillation Temperature Control Module	4-70°C
Stacking System	3 Micro Well Plates	Cantilever Computer	Intel® Celeron® Memory: 4GB Solid-state Drive: 128GB

Performance of Automated Liquid Handling Solution

Performance of Vazyme DNA Lib Prep & Target Enrichment Kit



*Automated Performance of Library Preparation with #ND627-VAHTS Universal Plus DNA Library Prep Kit for Illumina V2



***Automated Performance of Target Enrichment with :**
 #NC001-VAHTS Target Capture Core Exome Panel
 #NC101-VAHTS Target Capture Universal Blockers and Post-PCR Primer Mix for Illumina-TS
 #NC103-VAHTS Target Capture Hybridization and Wash Kit

Performance of Automated Liquid Handling Solution

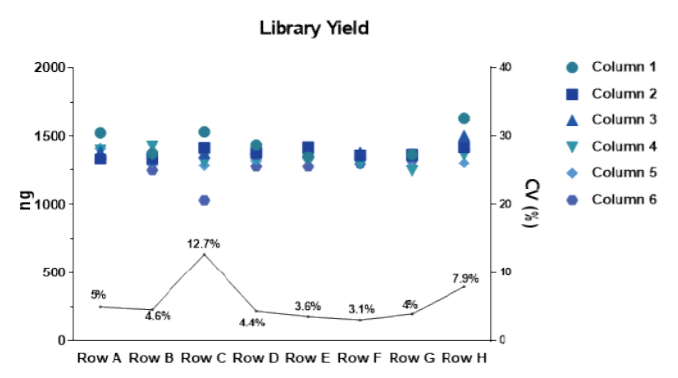
• Performance of Vazyme Plate-based DNA & RNA Lib Prep Kit



PANDA Mini Liquid Handling Workstation

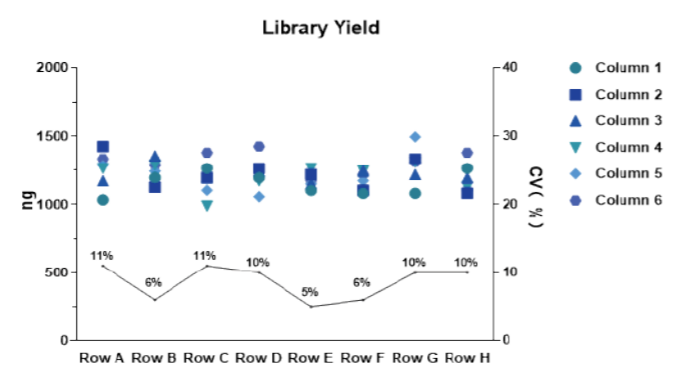
#NDB627

VAHTS Universal Plus DNA Library Prep Kit for Illumina V2 (Plate)

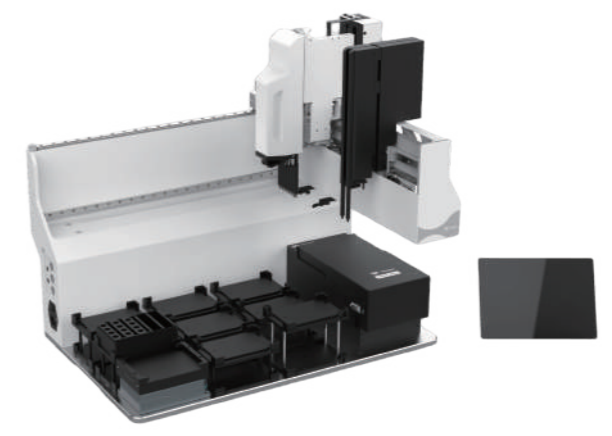


#NRB616

VAHTS Universal V10 RNA-seq Library Prep Kit (Plate)

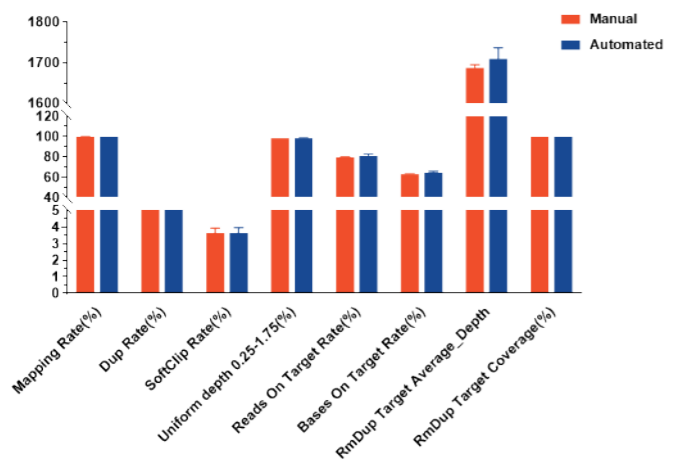


#VNL-10P

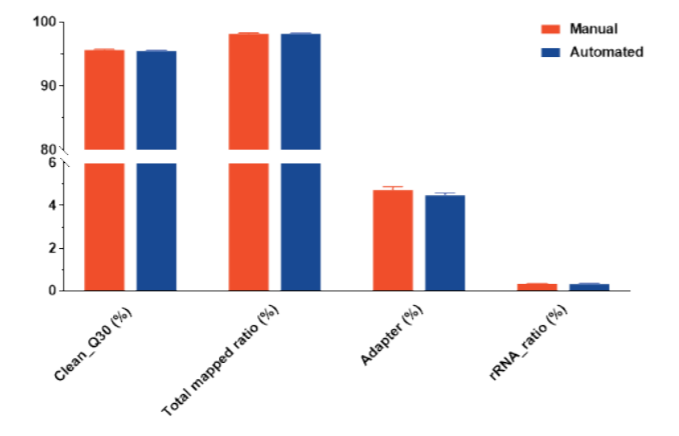


-Faster Quantification & Normalization -Half the Time, Double the Efficiency

Sequencing Date

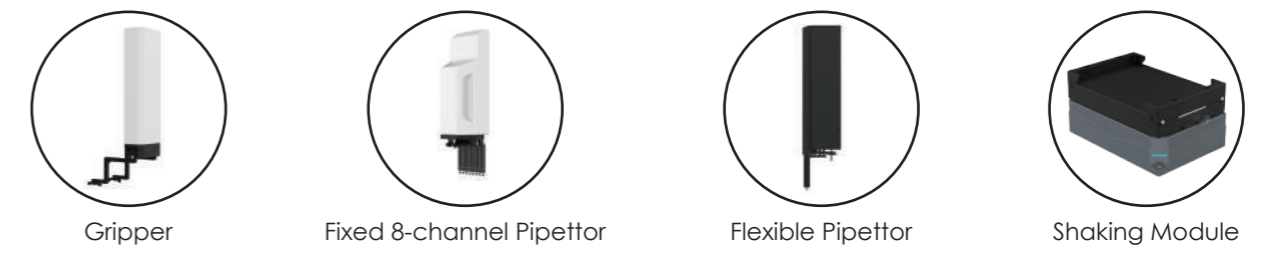


Sequencing Data

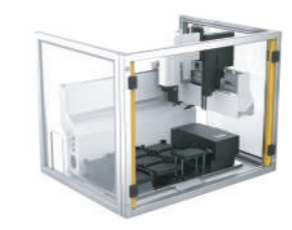


Functional Modules

-Regular Modules



-Optional Module



-Specialized Module



• 96 samples quantification in 35s

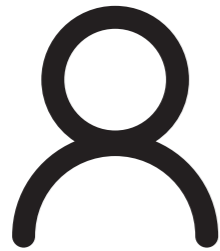
*Automated Performance of Whole Genome Sequencing and Transcriptome Sequencing
 *There is no significant difference between manual and automatic pre-packaged experiments results

Top Values, Delivered to You

• Walk-away Operation

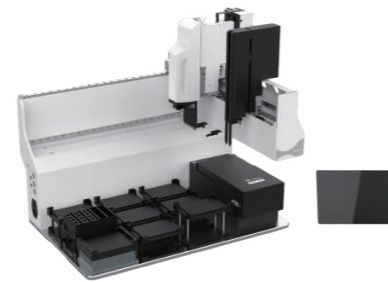
Pressure Liquid Sensing (pLLD) and state monitoring work together to enable reliable walk-away operation.

• High Efficiency



~1.5h

~1.5h for manual input quantification and normalization for 96 samples

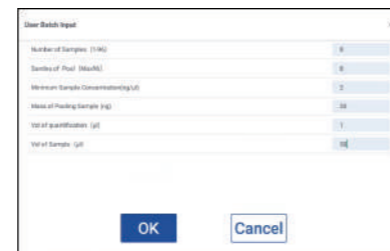


60 minutes

Only 60 minutes to finish input quantification and normalization for 96 samples

• Easy to Use

Intuitive interface, pre-set programs, and built-in process recording to deliver a better user experience and faster onboarding.



• Less Human Errors and More Reproducibilities

High-level automation minimizes human intervention, reducing the risk of errors. A **CV ≤ 10%** in normalization, pooling, and quantification ensures reproducibility.

Diverse Landscapes in Applications

Input and Library Normalization

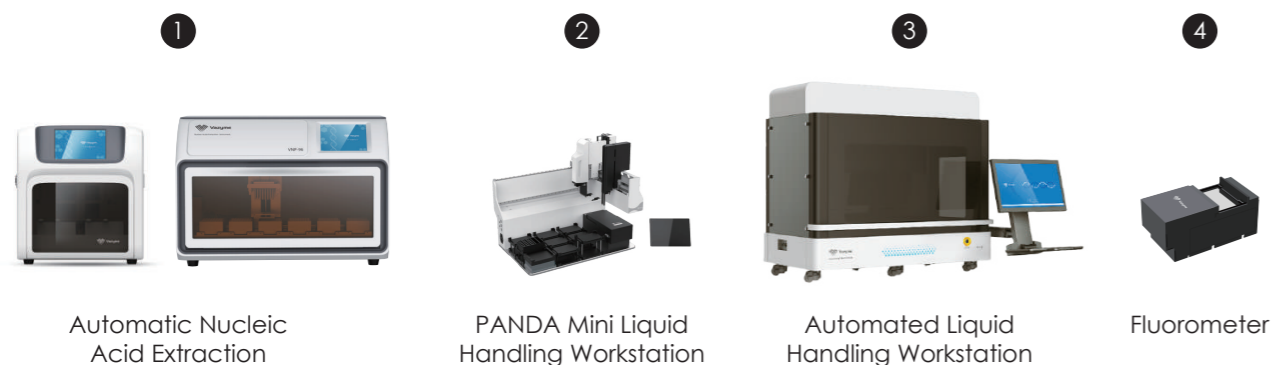
Library Pooling

Input and Library Quantification

Simple Liquid Handling

Parameters of PANDA Mini		
Size (W×D×H)	665 mm×525 mm×610 mm	
Weight	37 kg	
Power	~100-240 VAC, 50/60Hz	
Robotic Arm Configuration	Fixed 8-channel Pipettor+ 2 Flexible Pipettors Gripper Module	
Fluorometer	Sample Type	DNA, RNA
	Throughput	96 (Two Standard Samples Included)
	Accuracy	DNA: 0.5 ng/μl: ≤±20%; 5 ng/μl: ≤±8%; 20 ng/μl: ≤±5% RNA: 5 ng/μl: ≤±20%; 50 ng/μl: ≤±10%; 500 ng/μl: ≤±6%
	Consistency	DNA: 0.5 ng/μl: ≤6%; 0.5 ng/μl: ≤4%; 20ng/μl: ≤3%; 50 ng/μl: ≤2% RNA: 5ng/μl: ≤5%; 50 ng/μl: ≤3%; 500 ng/μl: ≤2%
Plate Capacity	12 (9+Fluorometer)	
Pipetting Principle	Air Replacement	
Pipetting Range	1 μl-1000 μl	
Liquid Sensing	Pressure Sensing	
Pipetting Accuracy	±4%@5 μl; ±1%@200 μl	
Pipetting Precision (CV)	≤4%≤5 μl; ≤1%≤200 μl	
Robotic Arm Motion Accuracy	±0.1 mm	

Instrument Combination



Automated Normalization & Pooling

1 2 3

Automated Extraction
Automated Quantification & Normalization
Automated Library Preparation
Automated Quantification & Pooling

Manual Normalization & Pooling

1 3 4

Automated Extraction
Automated Quantification & Manual Normalization
Automated Library Preparation
Automated Quantification & Manual Pooling

Other Scenarios

With Vazyme, you can choose individual modules or customized group setups to create a fully automated workflow

Instrument List

Cat.No.	Product Name	Throughput
VNP-96P	Automatic Nucleic Acid Extraction	1-96
VNP-32P		1-32
VNL-96P (RUO)	Automated Liquid Handling Workstation	96
VNL-96 (CE)		
VNL-10P (RUO)	PANDA Mini Liquid Handling Workstation	96
VNM-96S1/VNM-96D1	High Throughput Fluorescence Quantimeter	96

Automated Extraction Consumables List

Cat.No.	Product Name	Size
RH201-C2	Magnetic Bar Sleeves (For VNP-32P)	40 Sets (2 sleeves is 1 set)
RM201-C3	96 Well Plate & Magnetic Bar Sleeves (For VNP-32P)	48 Sets (1 plate and 2 sleeves is 1 set)
RH201-C1	96 Well Plate & Magnetic Bar Sleeves (For VNP-96P)	24 Sets (6 plates and 1 sleeve is 1 set)

Automated Liquid Handling Workstation Consumables List

Cat.No.	Product Name	Size
RDP09613	1.3 ml Robotic Deep Well Plates	100 Plates/Case
RSP09602	0.2 ml Skirted Micro Well Plates	50 Plates/Box
RTB02301	230 μ l Robotic Pipette Tips	50 Boxes/Case

PANDA Mini Liquid Handling Workstation (Fluorometer Included) Consumables List

Cat.No.	Product Name	Size
RTB02501	250 μ l Robotic Pipette Tips	50 Boxes/Case
RTB00501	50 μ l Robotic Pipette Tips	50 Boxes/Case
RLT10001	100 ml Robotic Liquid Storage Tank	200 Sets/Case
RLT02501	25 ml Robotic Liquid Storage Tank	200 Sets/Case
ELP0961W	96-Well Microplates	100 Plates/Case

Extraction Reagent List

Use with VNP-32P		
Cat.No.	Product Name	Applicable Sample Type
RMA101-01/02	VAMNE Magnetic Cell/Tissue Total RNA Extraction Kit	Animal cells and tissues
ROA3302-01/02	VAMNE Magnetic Universal Total RNA Kit	Animal cells and tissues
DC112-C3/C5	FastPure Bacteria DNA Isolation Kit	Animal cells, tissues, and bacteria
DM102-01/02	Magnetic Blood DNA Extraction Kit	Blood and buccal swab
DM602-01	VAMNE MagUltra FFPE DNA Extraction Kit	FFPE
N904-C1	VAMNE MagUltra Circulating Cell-free DNA Isolation Mini Kit	Serum, plasma
RM501-01/02/03	Virus DNA/RNA Extraction Kit 3.0	Blood,swab, and stool,etc
RM602-01	VAMNE Magnetic Pathogen DNA/RNA Kit	Blood,swab,and sputum,etc
DMA5102-01/02	VAMNE Stool/Soil DNA Extraction Kit	Stool and soil
Use with VNP-96P		
Cat.No.	Product Name	Applicable Sample Type
RMA102-01	VAMNE Magnetic Cell/Tissue Total RNA Extraction Kit	Animal cells and tissues
ROA3303-01	VAMNE Magnetic Universal Total RNA Kit	Animal cells and tissues
DC112-C6	FastPure Bacteria DNA Isolation Kit	Animal cells, tissues, and bacteria
N904-C2	VAMNE MagUltra Circulating Cell-free DNA Isolation Mini Kit	Serum, plasma
RM502-01	Virus DNA/RNA Extraction Kit 3.0	Blood,swab, and stool,etc
DMA5103-01	VAMNE Stool/Soil DNA Extraction Kit	Stool and soil

Plate-based Library Prep Reagent List

Application	Cat.No.	Product Name	Platform
DNA Library Prep Kit	NDB610-01	VAHTS Universal DNA Library Prep Kit for Illumina V4 (Plate)	Illumina
	NDB627-01	VAHTS Universal Plus DNA Library Prep Kit for Illumina V2 (Plate)	Illumina
RNA Library Prep Kit	RNB702-01/02	VAHTS mRNA Capture Beads (Ultrapure Plate)	Illumina/MGI
	NRB616-01/02	VAHTS Universal V10 RNA-seq Library Prep Kit (Plate)	Illumina/MGI
Adapter	NB344	VAHTS Maxi Unique Dual Index Primers Set 1 - Set 8 for Illumina (Plate)	Illumina
	NMB344	VAHTS Maxi Unique Dual Barcode Primers Set 1 - Set 8 for MGI (Plate)	MGI
	N805-PB2	VAHTS DNA Adapter Set 3 - Set 6 for Illumina	Illumina
	NMB108	VAHTS DNA Adapter Set 8 for MGI (Plate)	MGI

Tube-based Adapter List

Application	Cat.No.	Product Name	Platform
Adapter	N805-N808	VAHTS DNA Adapters Set 3 - Set 6 for Illumina	Illumina
	N342	VAHTS Maxi Unique Dual Index DNA Adapters Set 1 - 4 for Illumina	Illumina
	N344	VAHTS Maxi Unique Dual Index Primers Set 1 - 4 for Illumina	Illumina
	N321-N322	VAHTS Multiplex Oligos Set 4 - 5 for Illumina	Illumina
	TD202/TD203	TruePrep Index Kit V2/V3 for Illumina	Illumina
	NM108	VAHTS DNA Adapters Set 8 for MGI	MGI
	NM109	VAHTS PCR-Free DNA Adapters Set 1 - 4 for MGI	MGI
	NM344	VAHTS Maxi Unique Dual Barcode Primers Set 1 - 4 for MGI	MGI

Nucleic Acid Quantification Reagent List

Sample Type	Cat.No.	Product Name
dsDNA	EQ122	Equalbit dsDNA BR Assay Kit
	EQ121	Equalbit 1 × dsDNA HS Assay Kit
RNA	EQ211	Equalbit RNA HS Assay Kit
	EQ212	Equalbit RNA BR Assay Kit

Tube-based Library Prep Reagent (for Illumina) List

Applications	Cat.No.	Product Name
DNA Library Preparation		
DNA Library Prep Kit based on Mechanical Fragmentation	ND610	VAHTS Universal DNA Library Prep Kit for Illumina V4
	ND627	VAHTS Universal Plus DNA Library Prep Kit for Illumina V2
DNA Library Prep Kit based on Enzymatic Fragmentation	UND637	UltraClean Universal Plus DNA Library Prep Kit for Illumina V3
	TD501/TD502/TD503	TruePrep DNA Library Prep Kit V2 for Illumina
DNA Library Prep Kit based on Transposase Fragmentation	TD504	TruePrep Flexible DNA Library Prep Kit for Illumina
Multiplex amplicons Library Prep Kit	NA210	VAHTS AmpSeq Library Prep Kit V3
RNA Library Preparation		
RNA Enrichment Module	N403	VAHTS mRNA Capture Beads
	RN416	Ribo-clean rRNA Depletion Kit Mega (Prevalent Species)
	RN419	Ribo-clean rRNA Depletion Kit Mega (Plant)
	RN417	Ribo-clean rRNA Depletion Kit Mega (Bacteria)
RNA Library Prep Kit	NR616	VAHTS Universal V10 RNA-seq Library Prep Kit (Premixed Version)
Target Enrichment		
Exome Panel	NC001	VAHTS Target Capture Core Exome Panel
Universal Blockers	NC101	VAHTS Target Capture Universal Blockers and Post-PCR Primer Mix for Illumina-TS
	NC103	VAHTS Target Capture Hybridization and Wash Kit

Tube-based Library Prep Reagent (for MGI) List

Applications	Cat.No.	Product Name
DNA Library Preparation		
DNA Library Prep Kit based on Mechanical Fragmentation	NDM607	VAHTS Universal DNA Library Prep Kit for MGI V3
DNA Library Prep Kit based on Enzymatic Fragmentation	NDM627	VAHTS Universal Plus DNA Library Prep Kit for MGI V2
	UNDM637	UltraClean Universal Plus DNA Library Prep Kit for MGI V3
RNA Library Preparation		
RNA Enrichment Module	N403	VAHTS mRNA Capture Beads
	RN416	Ribo-clean rRNA Depletion Kit Mega (Prevalent Species)
	RN419	Ribo-clean rRNA Depletion Kit Mega (Plant)
	RN417	Ribo-clean rRNA Depletion Kit Mega (Bacteria)
RNA Library Prep Kit	NR616	VAHTS Universal V10 RNA-seq Library Prep Kit (Premixed Version)
Target Enrichment		
Exome Panel	NC001	VAHTS Target Capture Core Exome Panel
Universal Blockers	NCM101	VAHTS Target Capture Universal Blockers and Post-PCR Primer Mix for MGI-SI
	NCM102	VAHTS Target Capture Universal Blockers and Post-PCR Primer Mix for MGI-D1
Hybridization and Wash Kit	NC103	VAHTS Target Capture Hybridization and Wash Kit

