



Your Guide to Vazyme Products

Product Selection Manual

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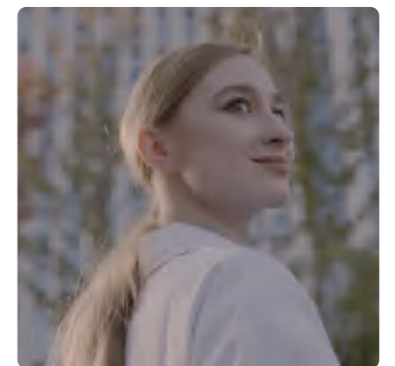
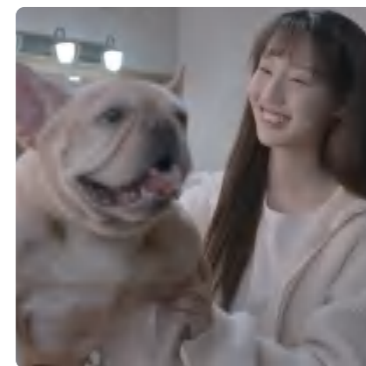
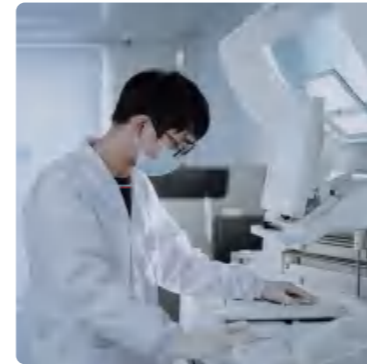
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Red Maple Hitech Industry Park, Nanjing, PRC

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Vazyme

Vazyme (688105.SH) is a global supplier dedicated to design, manufacture and application of bioactive proteins and continuously expands the application fields of core technologies in life science, in vitro diagnostics, bio-medicine, lab consumables and instruments.

Strive for Excellence

Catering to Diverse Customer Needs

To meet the varying needs of our customers and partners, we have developed over 600 types of genetically engineered recombinant enzymes, more than 2,500 types of high-performance materials, and over 2,000 end products.

Commitment to Quality

Pursing Highest Standards of Products and Services

Our dedicated quality assurance team engages in continuous improvement by adopting advanced technologies and management practices to ensure that every product meets the highest standards. We oversee every stage of production and prioritize quality control at each step, from key materials self-supply and manufacturing processes to final inspection and delivery.

Operation in Global Terms

Serving Customers in 60+ Countries

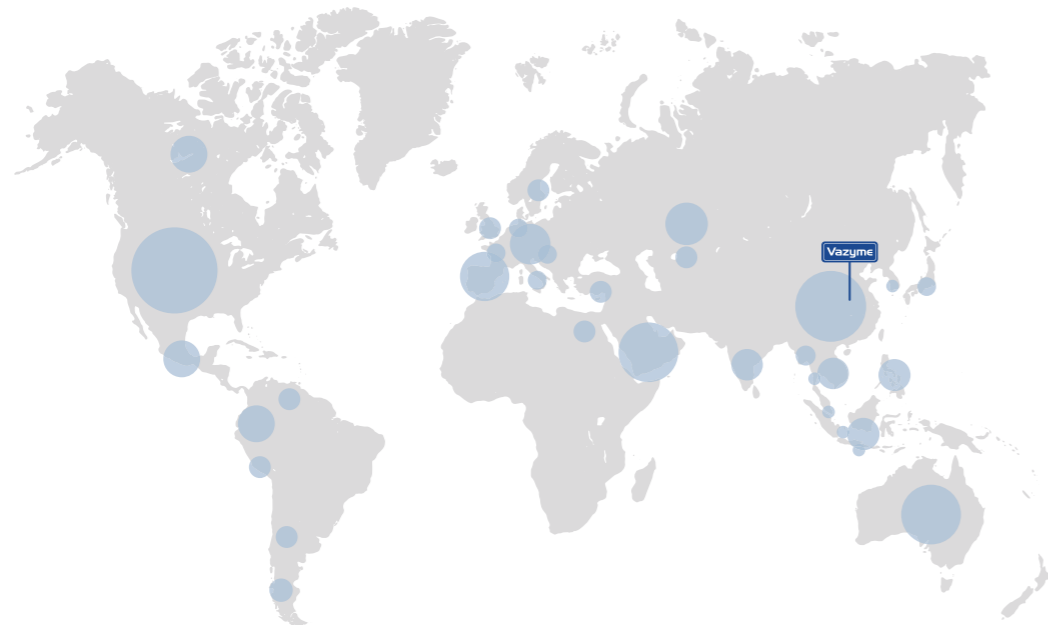
By integrating local insights with global strategies, Vazyme has established an operational network with multiple subsidiary companies and warehouses worldwide to quickly respond to diverse customer needs.

Our mission is to empower our customers to advance the innovation of science and health. Together, we explore the unknown and push the boundaries of scientific research in service of a healthier life for all.

Who We Are

<p>We are 3000+ extraordinary minds leveraging our expertise and engaged in scientific development</p>	<p>Driven by Protein precise engineering and large-scale production is our core competitiveness</p>	<p>Dedicated to Application in life science, IVD, bio-medicine, lab consumables and instruments</p>
<p>Strive for excellent Service that are tailored to the diverse needs of our customers</p>	<p>Business through Global locations across the Americas, European and APAC regions</p>	<p>Committed to Sustainability guides us towards a positive difference for a greener and healthier future</p>

We are committed to redefining the landscape of global business by establishing local customer support teams, subsidiaries, and warehouses. To better serve our global clientele, including scientists, researchers, and engineers in over 60 countries and regions, we are upgrading our operational network to create a localized one-stop customer experience while ensuring the high-quality delivery of products through cold chain transportation.



18,000+
Principal Investigators

4,000+
Institutions

5,000+
Enterprises

We Are Driven by R&D



We Focus on Tech Innovation

Five self-developed key technology platforms are the foundation for our products, solutions, and services

Protein Directed Modification & Evolution Platform

For high-end products: Improved products performance via leading-edge technology platform

Multi-system Recombinant Protein Preparation Platform

For safer supply chain: Increase the unit production capacity to world leading level

High Performance Antibody Discovery Platform (Based on Single B Cell)

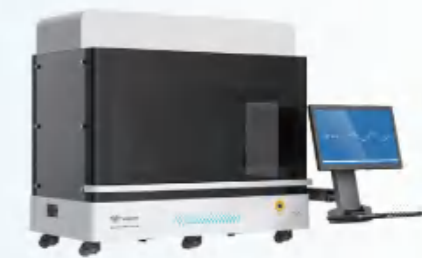
For difficult and scarce products: Enhance antibody screening efficiency and shorten development cycle

Quantum Dot Modified Coupling and Multi-index Joint Inspection Technology Platform

For higher efficiency with lower cost: Multiple test results for one sample in one step

The Instrument Research and Development Platform

For developing technology for instrumentation testing platforms and automation systems



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Strong Supply Chain Meets Various Needs

46,000m²

Production Area

10-5,000L

Automated Fermentation System

500-1,200L

Cell Culture System

2,000+Order/day

Delivery Capacity of Life Science Reagents



Smart Manufacturing Drives Better Efficiency

We have realized digital management through information systems that enable data analysis and real-time monitoring, driving smarter and more efficient production planning and resource allocation.

The Supplier Relationship Management System (SRM)
Risk Management & Strengthened Collaboration

The Manufacturing Execution System (MES)
Production Transparency & Better Decision-Making

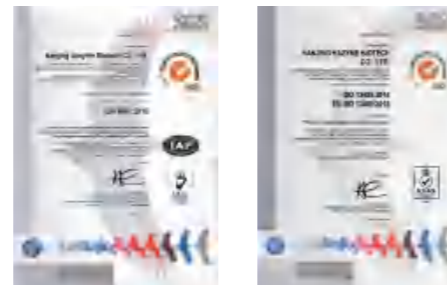
The Cyber-Physical System (CPS)
Real-time Monitoring & Predictive Maintenance

The Warehouse Management System (WMS)
Inventory Visibility & Improved Accuracy



Quality Management Leads to the Highest Standards

- ISO 9001:2015
- ISO 13485:2016
- ISO 45001:2018
- ISO 14001:2015



Nucleic Acid Extraction

DNA Extraction

Genomic DNA Extraction

Product Name	Size	Cat. No.	Price (USD)
FastPure Cell/Tissue DNA Isolation Mini Kit	100 rxns	DC102-01	130
FastPure Bacteria DNA Isolation Mini Kit	100 rxns	DC103-01	130
FastPure Plant DNA Isolation Mini Kit	50 rxns	DC104-01	150
FastPure FFPE DNA Isolation Kit	50 rxns	DC105-01	188
HOT FastPure Blood / Cell / Tissue / Bacteria DNA Isolation Mini Kit	50/200 rxns	DC112-01/02	159/558
Room Temp Sample Lysis Kit	250/1,000 rxns	P073-01/02	168/560
NEW VAMNE MagUltra Blood Genomic DNA Extraction Kit	50/200 rxns	DM101-01/02	140/522

Plasmid Extraction

Product Name	Size	Cat. No.	Price (USD)
FastPure Plasmid Mini Kit	100 rxns	DC201-01	100
FastPure EndoFree Plasmid Mini Kit	50 rxns	DC203-01	73
FastPure EndoFree Plasmid Midi Kit	10 rxns	DC205-01	100
FastPure EndoFree Plasmid Maxi Kit V2	10 rxns	DC212-C1	220

Cell-Free DNA Extraction

Product Name	Size	Cat. No.	Price (USD)
VAHTS Serum/Plasma Circulating DNA Kit	50/200 rxns (500 µl/rxn)	N902-01/02	218/783
VAMNE MagUltra Circulating Cell-free DNA Isolation Kit	50/100 rxns (2 ml/rxn)	N913-01/02	445/800

DNA Clean Up

Product Name	Size	Cat. No.	Price (USD)
FastPure Gel DNA Extraction Mini Kit	100 rxns	DC301-01	162

RNA Extraction

Total RNA Extraction

Product Name	Size	Cat. No.	Price (USD)
NEW FreeZol Reagent	200/400 rxns	R711-01/02	300/480
VeZol Reagent	100/200 ml	R411-01/02	191/319
HOT FastPure Cell / Tissue Total RNA Isolation Kit V2	50 rxns	RC112-01	275
FastPure Plant Total RNA Isolation Kit (Polysaccharides&Polyphenolics-rich)	50 rxns	RC401-01	250
HOT FastPure Universal Plant Total RNA Isolation Kit	50 rxns	RC411-01	299
VeZol-Pure Total RNA Isolation Kit	100 rxns	RC202-01	380

miRNA Extraction

Product Name	Size	Cat. No.	Price (USD)
MiPure Cell/Tissue miRNA Kit	50 rxns	RC201-01	306

Microbiome Nucleic Acid Extraction

Pathogen DNA/RNA Extraction

Product Name	Size	Cat. No.	Price (USD)
FastPure Microbiome DNA Isolation Kit	50 rxns	DC502-01	326
VAMNE Magnetic Pathogen DNA/RNA Kit	50 rxns	RM601-01	181
VAMNE Magnetic Pathogen DNA/RNA Kit (Prepackaged)	64 T	RM602-01	232

Virus DNA/RNA Extraction

Product Name	Size	Cat. No.	Price (USD)
FastPure Viral DNA/RNA Mini Kit	100 rxns	RC311-01	333
FastPure Viral DNA/RNA Mini Kit Pro	50 rxns	RC323-01	274
Virus DNA/RNA Extraction Kit 2.0 (Prepackaged)	50/48/96 T	RM401-01/02/04	175/163/317
HOT VAMNE Virus DNA/RNA Extraction Kit 3.0 (32 Prepackaged)	50/48/96 T	RM501-01/02/03	188/173/336
VAMNE Virus DNA/RNA Extraction Kit 3.0 (96 Prepackaged)	96 T	RM502-01	336

Sample Treatment

Sample Preserve and Treatment

Product Name	Size	Cat. No.	Price (USD)
RNase, RNA and DNA Remover	250 ml	R504-01	150

Nucleic Acid Related Products

Product Name	Size	Cat. No.	Price (USD)
Proteinase K (20 mg/ml)	1 ml	DE102-01	29
RNase A (100 mg/ml)	500 µl	DE111-01	58
Lysozyme	200 mg	DE103-01	18
DNase I, RNase-free	1,000/10,000 U (1 U/µl)	EN401-01/02	73/696
	1,000/10,000 U (50 U/µl)	EN402-01/02	73/696

Automatic Nucleic Acid Extraction System

Instrument

Product Name	Size	Cat. No.
Automatic Nucleic Acid Extraction Instrument	1	VNP-32P
Full-automatic Nucleic Acid Extraction Instrument	1	VNP-96P

Automatic Extraction Kits

Product Name	Size	Cat. No.	Price (USD)
Magnetic Blood DNA Extraction Kit (32 Prepackaged)	32/96 T	DM102-01/02	90/250
FastPurFastPure Bacteria DNA Isolation Kit (32 Prepackaged)	96 T	DC112-C3	319
FastPure Bacteria DNA Isolation Kit (96 Prepackaged)	96 T	DC112-C6	319
VAMNE MagUltra FFPE DNA Extraction Kit (32 Prepackaged)	64 T	DM602-01	320
VAMNE MagUltra Circulating Cell-free DNA Isolation Mini Kit (32 Prepackaged)	48 T	N904-C1	233
VAMNE Magnetic Universal Total RNA Kit (32 Prepackaged)	50 T/96 T	ROA3302-01/02	190/349
VAMNE Magnetic Universal Total RNA Kit (96 Prepackaged)	96 T	ROA3303-01	349
VAMNE Magnetic Cell/Tissue Total RNA Kit (32 Prepackaged)	50/96 T	RMA101-01/02	275/528
VAMNE Magnetic Cell/Tissue Total RNA Kit (96 Prepackaged)	96 T	RMA102-01	528
VAMNE Magnetic Pathogen DNA/RNA Kit (Prepackaged)	64 T	RM602-01	232
VAMNE Virus DNA/RNA Extraction Kit 3.0 (32 Prepackaged)	50/48/96 T	RM501-01/02/03	188/173/336
VAMNE Virus DNA/RNA Extraction Kit 3.0 (96 Prepackaged)	96 T	RM502-01	336

Molecular Biology Research Reagents

PCR Series Products

High-Fidelity PCR

Product Name	Size	Cat. No.	Price (USD)
Phanta Super-Fidelity DNA Polymerase	100 U/500 U/1,000 U	P501-d1/d2/d3	73/322/580
Phanta Max Super-Fidelity DNA Polymerase	100 U/500 U/1,000 U	P505-d1/d2/d3	127/463/870
2 × Phanta Max Master Mix	1 ml/5 × 1 ml/15 × 1 ml	P515-01/02/03	91/248/696
HOT 2 × Phanta UniFi Master Mix	1 ml/5 × 1 ml/15 × 1 ml	P516-01/02/03	100/320/870
2 × Phanta Max Master Mix (Dye Plus)	1 ml/5 × 1 ml/15 × 1 ml	P525-01/02/03	91/248/696
HOT 2 × Phanta UniFi Master Mix (Dye Plus)	1 ml/5 × 1 ml/15 × 1 ml	P526-01/02/03	100/320/870
Phanta Flash Super-Fidelity DNA Polymerase	100 U/500 U/1,000 U	P521-d1/d2/d3	127/463/870
HOT 2 × Phanta Flash Master Mix	1 ml/5 × 1 ml/15 × 1 ml	P510-01/02/03	114/310/870
2 × Phanta Flash Master Mix (Dye Plus)	1 ml/5 × 1 ml/15 × 1 ml	P520-01/02/03	114/310/870
2 × KeyPo SE Master Mix (Dye Plus)	1 ml/5 × 1 ml/15 × 1 ml	PK512-01/02/03	55/180/480

Conventional PCR

Product Name	Size	Cat. No.	Price (USD)
Taq DNA Polymerase (Mg ²⁺ plus Buffer)	1,000 U/10,000 U	P101-01/03	75/580
2 × Taq Master Mix	5 × 1 ml/50 × 1 ml	P111-01/03	74/580
HOT 2 × Taq Master Mix (Dye Plus)	5 × 1 ml/15 × 1 ml/50 × 1 ml	P112-01/02/03	74/197/580
3G Taq Master Mix for PAGE (Red Dye)	10 × 5 ml	P115-02	580

High-Yield PCR

Product Name	Size	Cat. No.	Price (USD)
2 × Taq Plus Master Mix	5 × 1 ml/50 × 1 ml	P211-01/03	118/1,014
2 × Taq Plus Master Mix II (Dye Plus)	5 × 1 ml/15 × 1 ml/50 × 1 ml	P213-01/02/03	118/324/1,014

Rapid PCR

Product Name	Size	Cat. No.	Price (USD)
HOT 2 × Rapid Taq Master Mix	5 × 1 ml/15 × 1 ml/50 × 1 ml/10 × 5 ml	P222-01/02/03/04	107/289/860/860
NEW 2 × Rapid Taq Plus Master Mix (Dye Plus)	5 × 1 ml/15 × 1 ml/50 × 1 ml/10 × 5 ml	P223-01/02/03/04	130/350/1000/1000

Direct PCR

Product Name	Size	Cat. No.	Price (USD)
One Step Mouse Genotyping Kit	200 rxns (50 µl/rxn)	PD101-01	261
Plant Direct PCR Kit	200 rxns (50 µl/rxn)	PD105-02	319

Long Range PCR

Product Name	Size	Cat. No.	Price (USD)
2 × Vazyme LAmp Master Mix	5 × 1 ml/15 × 1 ml	P311-02/03	195/522
2 × Vazyme LAmp Master Mix (Dye Plus)	5 × 1 ml/15 × 1 ml	P312-02/03	195/522

PCR-Related

Product Name	Size	Cat. No.	Price (USD)
PCR Enhancer	500 µl/5 × 500 µl	P021-01/02	18/80
dNTP Mix (10 mM each)	1 ml/5 × 1 ml	P031-01/02	50/217
dUTP (100 mM)	1 ml	P033-01	174
dATP (100 mM)	1 ml	P034-01	174
dTTP (100 mM)	1 ml	P035-01	174
dCTP (100 mM)	1 ml	P036-01	174
dGTP (100 mM)	1 ml	P037-01	174
SwiftCut Dpn I	50 rxns (500 U, 10 U/µl)	C404	50

Nucleic Acid Electrophoresis

Nucleic Acid Stain

HOT

Product Name	Size	Cat. No.	Price (USD)
Ultra GelRed (10,000 ×)	0.5 ml/10 × 0.5 ml	GR501-01/02	107/966

DNA Marker

Product Name	Size	Cat. No.	Price (USD)
DL2000 Plus DNA Marker	50 rxns/100 rxns (5 µl/rxn)	MD101-01/02	23/43
DL5000 DNA Marker	50 rxns/100 rxns (5 µl/rxn)	MD102-01/02	23/43
DL15000 DNA Marker	50 rxns/100 rxns (5 µl/rxn)	MD103-01/02	27/51
100 bp DNA Ladder	50 rxns/100 rxns (5 µl/rxn)	MD104-01/02	37/58

Genome Editing Techniques

In Vitro Transcription

Product Name	Size	Cat. No.	Price (USD)
T7 High Yield RNA Transcription Kit	50 rxns/100 rxns	TR101-01/02	337/652
T7 RNAi Transcription Kit	25 rxns/50 rxns	TR102-01/02	223/435

Cloning/Mutagenesis

Fast Cloning

HOT

Product Name	Size	Cat. No.	Price (USD)
ClonExpress II One Step Cloning Kit	25 rxns/50 rxns (20 µl/rxn)	C112-01/02	217/362
ClonExpress MultiS One Step Cloning Kit	10 rxns/25 rxns (20 µl/rxn)	C113-01/02	96/199
ClonExpress Ultra One Step Cloning Kit	25 rxns/50 rxns (10 µl/rxn)	C115-01/02	268/435
ClonExpress Ultra One Step Cloning Kit V2	20 rxns/40 rxns (10 µl/rxn)	C116-01/02	218/348
ClonExpress Ultra One Step Cloning Kit V3	20 rxns/40 rxns (10 µl/rxn)	C117-01/02	225/375

Rapid Site-Directed Mutagenesis

Product Name	Size	Cat. No.	Price (USD)
Mut Express II Fast Mutagenesis Kit V2	10 rxns/25 rxns (20 µl/rxn)	C214-01/02	81/171
Mut Express MultiS Fast Mutagenesis Kit V2	10 rxns/25 rxns (20 µl/rxn)	C215-01/02	185/388

Traditional/TA Cloning

HOT

Product Name	Size	Cat. No.	Price (USD)
T4 DNA Ligase	40,000 U	C301-01	58
5min Universal Ligation Mix	50 rxns/100 rxns (10 µl/rxn)	C311-01/02	145/232

TOPO Cloning

HOT

Product Name	Size	Cat. No.	Price (USD)
5 min TA/Blunt-Zero Cloning Kit	25 rxns/50 rxns (5 µl/rxn)	C601-01/02	201/362
Ultra-Universal TOPO Cloning Kit	20 rxns/40 rxns (10 µl/rxn)	C603-01/02	196/348

Reverse Transcription

Universal RT-PCR/RT-qPCR Mix

Product Name	Size	Cat. No.	Price (USD)
HOT HiScript III 1st Strand cDNA Synthesis Kit (+gDNA wiper)	50 rxns/100 rxns (20 µl/rxn)	R312-01/02	326/478
NEW HiScript IV 1st Strand cDNA Synthesis Kit (+gDNA wiper)	50 rxns/100 rxns (20 µl/rxn)	R412-01/02	355/574

RT-qPCR SuperMix

Product Name	Size	Cat. No.	Price (USD)
HiScript III RT SuperMix for qPCR (+gDNA wiper)	100 rxns (20 µl/rxn)	R323-01	435
HOT HiScript III All-in-one RT SuperMix Perfect for qPCR	100 rxns (20 µl/rxn)	R333-01	435
NEW HiScript IV RT SuperMix for qPCR (+gDNA wiper)	100 rxns (20 µl/rxn)	R423-01	522
NEW HiScript IV All-in-One Ultra RT SuperMix for qPCR	100 rxns (20 µl/rxn)	R433-01	522

miRNA Reverse Transcription

Product Name	Size	Cat. No.	Price (USD)
HOT miRNA 1st Strand cDNA Synthesis Kit (by stem-loop)	50 rxns/100 rxns (20 µl/rxn)	MR101-01/02	113/217
miRNA 1st Strand cDNA Synthesis Kit (by tailing A)	20 rxns/50 rxns (20 µl/rxn)	MR201-01/02	290/609

Real-Time PCR (qPCR)

Dye-Based qPCR

Product Name	Size	Cat. No.	Price (USD)
HOT ChamQ SYBR qPCR Master Mix	500 rxns/2,500 rxns (20 µl/rxn)	Q311-02/03	241/1,087
ChamQ SYBR qPCR Master Mix (Without ROX)	500 rxns/2,500 rxns (20 µl/rxn)	Q321-02/03	241/1,087
ChamQ SYBR qPCR Master Mix (Low ROX Premixed)	500 rxns/2,500 rxns (20 µl/rxn)	Q331-02/03	241/1,087
ChamQ SYBR qPCR Master Mix (High ROX Premixed)	500 rxns/2,500 rxns (20 µl/rxn)	Q341-02	241
ChamQ SYBR Color qPCR Master Mix	500 rxns/2,500 rxns (20 µl/rxn)	Q411-02/03	281/1,268
ChamQ SYBR Color qPCR Master Mix (Without ROX)	500 rxns/2,500 rxns (20 µl/rxn)	Q421-02/03	281/1,268
ChamQ SYBR Color qPCR Master Mix (Low ROX Premixed)	500 rxns/2,500 rxns (20 µl/rxn)	Q431-02	281
ChamQ SYBR Color qPCR Master Mix (High ROX Premixed)	500 rxns/2,500 rxns (20 µl/rxn)	Q441-02/03	281/1,268
AceQ Universal SYBR qPCR Master Mix	500 rxns (20 µl/rxn)	Q511-02	305
HOT ChamQ Universal SYBR qPCR Master Mix	500 rxns/2,500 rxns (20 µl/rxn)	Q711-02/03	305/1,377
HOT Taq Pro Universal SYBR qPCR Master Mix	500 rxns/2,500 rxns (20 µl/rxn)	Q712-02/03	322/1,450
NEW SupRealQ Ultra Hunter SYBR qPCR MasterMix (U ⁺)	500 rxns/2,500 rxns/500 rxns (20 ul/rxn)	Q713-02/03/04	350/1,540/345

One-Step RT-qPCR Mix

Product Name	Size	Cat. No.	Price (USD)
HiScript II One Step qRT-PCR SYBR Green Kit	250 rxns (20 µl/rxn)	Q221-01	267
HiScript II One Step qRT-PCR Probe Kit	250 rxns (20 µl/rxn)	Q223-01	314
NEW UniPeak U ⁺ One Step RT-qPCR SYBR Green Kit	250 rxns (20 µl/rxn)	Q226-01	314

miRNA qPCR Master Mix

Product Name	Size	Cat. No.	Price (USD)
NEW miRNA Unimodal SYBR qPCR Master Mix	125 rxns/500 rxns (20µl/rxn)	MQ102-01/02	98/320

Probe-Based qPCR Mater Mix

Product Name	Size	Cat. No.	Price (USD)
ChamQ Geno-SNP Probe Master Mix	500 rxns/2,500 rxns (20 µl/rxn)	Q811-02	311
AceQ Universal U ⁺ Probe Master Mix V2	500 rxns/2,500 rxns (20µl/rxn)	Q513-02/03	325/1,449

Molecular Diagnosis Reagents

Reverse Transcriptase

Product Name	Size	Cat. No.	Price (USD)
M-MLV (H-) Reverse Transcriptase	10,000 U	R021-01	73
HOT HiScript II Reverse Transcriptase	2,000 U/10,000 U	R201-01/02	31/145
HiScript II Reverse Transcriptase (Glycerol-free)	10,000 U/40,000 U	RL201-01/02	160/580
HiScript III Reverse Transcriptase	10,000 U	R302-01	181
NEW AccurSTART Reverse Transcriptase	10,000 U/40,000 U	RW201-01/02	261/980
AccurSTART Reverse Transcriptase (Glycerol-free)	10,000 U/40,000 U	RWL201-01/02	261/980

Reverse Transcription Related

Product Name	Size	Cat. No.	Price (USD)
HOT Murine RNase Inhibitor	2,000 U/10,000 U/20,000 U	R301-01/02/03	40/185/326
Murine RNase Inhibitor (Glycerol-free)	2,000 U/10,000 U/20,000 U	RL301-01/02/03	40/185/326

Probe-Based qPCR Mater Mix

Product Name	Size	Cat. No.	Price (USD)
ChamQ Geno-SNP Probe Master Mix	500 rxns/2,500 rxns (20 µl/rxn)	Q811-02/03	311/1,449
AceQ Universal U ⁺ Probe Master Mix V2	500 rxns/2,500 rxns (20 µl/rxn)	Q513-02/03	325/1,449
Taq Pro U ⁺ Multiple Probe qPCR Mix	100 rxns/500 rxns/2,500 rxns (20 µl/rxn)	QN213-01/02/03	98/485/2,174
HOT BioSmart U ⁺ All-Powerful Multiple Probe qPCR PreMix (ONE TUBE)	200 rxns/500 rxns/2,500 rxns (20 µl/rxn)	QN222-01/02/03	192/485/2,174

One-Step RT-qPCR Mix

Product Name	Size	Cat. No.	Price (USD)
HiScript III U ⁺ One Step qRT-PCR Probe Kit	100/1,000 /5,000 rxns (30 µl/rxn)	Q225-01/02/03	188/1,420/6,522
AccurSTART U ⁺ One Step RT-qPCR Probe Kit (FOR FAST)	200/1,000/10,000 rxns	Q231-01/02/03	464/1,594/14,928
HiScript III U ⁺ One Step qRT-PCR Probe 5 × Master Mix	100/1,000/10,000 rxns	Q611-01/02/03	217/1,812/15,217
HOT AccurSTART U ⁺ One Step RT-qPCR Super PreMix (ONE TUBE)	200/1,000/10,000 rxns	Q621-01/02/03	522/2,029/17,391
AccurSTART U ⁺ One Step RT-qPCR Probe Kit (Glycerol-free)	200/1,000/5,000 rxns	QL227-01/02/03	450/1,565/7,362
NEW GO-Lyo U ⁺ One Step RT-qPCR Probe Kit	200/1,000/10,000 rxns	QL229-01/02/03	540/1,878/8,834

Hot Start PCR

Product Name	Size	Cat. No.	Price (USD)
HOT Taq HS DNA Polymerase	500 U/1,000 U/5,000 U	P132-d1/d2/d3	96/178/812
NEW BioSmart Taq HS DNA Polymerase	200 rxns/500 rxns (20 µl/rxn)	P142-d1/d2	175/400
Taq HS DNA Polymerase (Glycerol-free)	1,000 U/5,000 U/50,000 U	QL101-01/02/03	178/812/7,250

Multiplex PCR

Product Name	Size	Cat. No.	Price (USD)
Taq Pro Multiplex DNA Polymerase (High sensitivity)	200 rxns/1,000 rxns (25 µl/rxn)	PM201-01/02	181/725
Taq Pro Multiplex DNA Polymerase (High specificity)	200 rxns/1,000 rxns (25 µl/rxn)	PM202-01/02	181/725

Direct Cell Culture to RT-qPCR

Product Name	Size	Cat. No.	Price (USD)
FlysisAmp Cells Lysis Kit	100/500 rxns	CL101-01/02	500/2,450
FlysisAmp Cells-to-cDNA Kit	100/500 rxns	CL111-01/02	797/3,587
FlysisAmp Cells-to-CT 2-Step Probe Kit	100/500 rxns	CL121-01/02	1,304/5,870
FlysisAmp Cells-to-CT 2-Step SYBR Green	100/500 rxns	CL122-01/02	942/4,239
FlysisAmp Cells-to-CT 1-Step Probe Kit	100/500 rxns	CL131-01/02	1,486/6,685
FlysisAmp Cells-to-CT 1-Step SYBR Green	100/500 rxns	CL132-01/02	1,123/5,054

Animal Detection

Product Name	Size	Cat. No.	Price (USD)
Animal Detection U* Probe Master Mix	400 rxns/800 rxns	QV110-01/02	260/464
Animal Detection U* Probe qPCR Super PreMix	400 rxns/800 rxns	QV114-01/02	320/579

Isothermal Amplification Series Products

Isothermal Amplification

Product Name	Size	Cat. No.	Price (USD)
Bst II DNA Polymerase Large Fragment	1,600 U	P702-01	55
HOT Bst II Pro DNA Polymerase Large Fragment	1,600 U/8,000 U	P703-01/02	73/290
Bst II Pro DNA Polymerase Large Fragment (Glycerol-free)	1,600 U/8,000 U	PL703-01/02	77/305
NEW RTv Reverse Transcriptase	1,500 U	RV101-01	310
NEW RTv Reverse Transcriptase (Glycerol-free)	1,500 U	RVL101-01	325
NEW Fluorescent LAMP/RT-LAMP Kit	100 rxns/500 rxns	RP711-01/02	318/1,268
LAMP Fluorescent Dye	100 µl	RP001-01	31

Cell and Protein Research Reagents

Cell Biology

Cell Transfection

Product Name	Size	Cat. No.	Price (USD)
HOT Lipomaster 2000 Transfection Reagent	1.5 ml/4 × 1.5 ml	TL201-01/02	590/2,000
NEW Lipomaster 3000 Transfection Reagent	1.5 ml/3 × 1.5 ml	TL301-01/02	650/1,630

Mycoplasma Detection and Elimination

Product Name	Size	Cat. No.	Price (USD)
MycobBlue Mycoplasma Detector	20 rxns/50 rxns	D101-01/02	58/130
MycobOff Mycoplasma Cleaner	100 µl/500 µl/1,000 µl	D103-01/02/03	106/446/870
NEW Mycolor One-Step Mycoplasma Detector	25 rxns/50 rxns	D201-01/02	110/200

Cell Isolation

Product Name	Size	Cat. No.	Price (USD)
Mouse CD3 ⁺ T Cell Isolation Kit	for 1 × 10 ⁹ cells	CS101-01	720
Mouse CD4 ⁺ T Cell Isolation Kit	for 1 × 10 ⁹ cells	CS102-01	720
Mouse CD8 ⁺ T Cell Isolation Kit	for 1 × 10 ⁹ cells	CS103-01	720
EasyIso Magnet	5 ml	CS001	880

Cell Apoptosis Detection

Product Name	Size	Cat. No.	Price (USD)
TUNEL BrightGreen Apoptosis Detection Kit	20 rxns/50 rxns/100 rxns	A112-01/02/03	323/558/870
TUNEL BrightRed Apoptosis Detection Kit	20 rxns/50 rxns/100 rxns	A113-01/02/03	323/558/870
Annexin V-FITC/PI Apoptosis Detection Kit	50 rxns/100 rxns	A211-01/02	146/246
Annexin V-PE/7-AAD Apoptosis Detection Kit	50 rxns/100 rxns	A213-01/02	193/290

Cell Proliferation Assay

Product Name	Size	Cat. No.	Price (USD)
HOT CCK-8 Cell Counting Kit	500 rxns/1,000 rxns (10 µl/rxn)	A311-01/02	103/174

Dual Luciferase Reporter Assay

Product Name	Size	Cat. No.	Price (USD)
Dual Luciferase Reporter Assay Kit	100 rxns (100 µl/rxn)	DL101-01	145

Protein Research

Protein Quantification

Product Name	Size	Cat. No.	Price (USD)
HOT BCA Protein Quantification Kit	250 rxns/500 rxns	E112-01/02	90/145

Protein Purification

Product Name	Size	Cat. No.	Price (USD)
HisGrip Elite	1 ml/5 × 1 ml/5 ml/5 × 5 ml	HP101-01/02/03/04	65/250/275/955
HisGrip Master	1 ml/5 × 1 ml/5 ml/5 × 5 ml	HP102-01/02/03/04	50/195/230/720
Ni Elite Beads (TED)	5 ml/25 ml/100 ml/500 ml	HP201-01/02/03/04	90/400/1,500/6,100
Ni Sepharose FF (NTA)	5 ml/25 ml/100 ml/500 ml	HP201-01/02/03/04	80/325/1,160/4,350

IP/CoIP

Product Name	Size	Cat. No.	Price (USD)
Protein A/G Magnetic Beads	1 ml/5 × 1 ml	PB101-01/02	110/400
Anti-rabbit IgG for IP (HRP)	100 µl	RA1008-01	232
Anti-mouse IgG for IP (HRP)	100 µl	RA1009-01	232
Protein A/G Magnetic IP/Co-IP Kit	20 rxns/100 rxns	PB201-01/02	245/890

Western Blot

Product Name	Size	Cat. No.	Price (USD)
HOT 180 kDa Plus Prestained Protein Marker	100 rxns/500 rxns	MP201-01/02	129/515
250 kDa Plus Prestained Protein Marker	100 rxns/500 rxns	MP202-01/02	155/618
FlashSTART PAGE Gel, Bis-Tris, 8%, 12 wells	10/BOX	E501-01	90
FlashSTART PAGE Gel, Bis-Tris, 8%, 15 wells	10/BOX	E502-01	90
FlashSTART PAGE Gel, Bis-Tris, 10%, 12 wells	10/BOX	E503-01	90
FlashSTART PAGE Gel, Bis-Tris, 10%, 15 wells	10/BOX	E504-01	90
FlashSTART PAGE Gel, Bis-Tris, 12%, 12 wells	10/BOX	E505-01	90
FlashSTART PAGE Gel, Bis-Tris, 12%, 15 wells	10/BOX	E506-01	90
FlashSTART PAGE Gel, Bis-Tris, 4-12%, 12 wells	10/BOX	E601-01	90
FlashSTART PAGE Gel, Bis-Tris, 4-12%, 15 wells	10/BOX	E602-01	90
FlashSTART PAGE Gel, Bis-Tris, 4-20%, 12 wells	10/BOX	E603-01	90
FlashSTART PAGE Gel, Bis-Tris, 4-20%, 15 wells	10/BOX	E604-01	90
HOT PVDF Membrane (0.45 μm)	27.5 cm × 3.75 m/ 90 mm × 60 mm, 50 sheets	E801-01/02	450/160
PVDF Membrane (0.22 μm)	27.5 cm × 3.75 m/ 90 mm × 60 mm, 50 sheets	E802-01/02	460/165
SuperPico ECL Chemiluminescence Kit	100 ml/500 ml	E422-01/02	99/300
HOT SuperFemto ECL Chemiluminescence Kit	100 ml/500 ml	E423-01/02	145/505

Next-Generation Sequencing Library Preparation

DNA Library Preparation Series

DNA Library Preparation Kit (Apply to Illumina Platform)

Product Name	Size	Cat. No.	Price (USD)
TruePrep DNA Library Prep Kit V2 for Illumina	24 rxns/96 rxns	TD501/TD502/ TD503-01/02	745/2,784
TruePrep Flexible DNA Library Prep Kit for Illumina	24 rxns/96 rxns	TD504-01/02	864/3,264
VAHTS Universal DNA Library Prep Kit for Illumina V4	24 rxns/96 rxns	ND610-01/02	700/2,520
NEW VAHTS Universal DNA Library Prep Kit for Illumina V4 (without PCR module)	24 rxns/96 rxns	ND610-03/04	620/2,220
HOT VAHTS Universal Plus DNA Library Prep Kit for Illumina V2	24 rxns/96 rxns	ND627-01/02	765/2,650
UltraClean Universal Plus DNA Library Prep Kit for Illumina V3	24 rxns/96 rxns	UND637-01/-02	928/2,957
VAHTS ssDNA Library Prep Kit for Illumina	24 rxns/96 rxns	ND620-01/02	1,050/3,765
VAHTS AmpSeq Library Prep Kit V3	24 rxns/96 rxns	NA210-01/02	3,675/12,015

DNA Library Preparation Kit (Apply to Ion Torrent Platform)

Product Name	Size	Cat. No.	Price (USD)
VAHTS AmpSeq Library Prep Kit V3	24 rxns/96 rxns	NA210-01/02	3,675/12,015

DNA Library Preparation Kit (Apply to MGI Platform)

Product Name	Size	Cat. No.	Price (USD)
TruePrep DNA Library Prep Kit for MGI	24 rxns/96 rxns	TDM501/TDM502/ TDM503-01/02	745/2,784
TruePrep Flexible DNA Library Prep Kit for MGI	24 rxns/96 rxns	TDM504-01/02	864/3,264
VAHTS Universal DNA Library Prep Kit for MGI	24 rxns/96 rxns	NDM607-01/02	650/2,340
VAHTS Universal Plus DNA Library Prep Kit for MGI V2	24 rxns/96 rxns	NDM627-01/02	765/2,650
UltraClean Universal Plus DNA Library Prep Kit for MGI V3	24 rxns/96 rxns	UNDM637-01/-02	928/2,957

Third-Generation Sequencing

Product Name	Size	Cat. No.	Price (USD)
VAHTS TGS DNA Library Prep Kit for ONT	24rxns	TS201-01	885

DNA Library Preparation Module

Product Name	Size	Cat. No.	Price (USD)
VAHTS Circularization Kit For MGI	16 rxns/48 rxns	NM201-01/02	348/938
VAHTS HiFi Universal Amplification Mix for MGI (SI)	24 rxns/96 rxns	NM618-01/02	80/300
VAHTS HiFi Universal Amplification Mix for Illumina	24 rxns/96 rxns	N618-01/02	80/300
VAHTS AmpSeq Multi-PCR Module V3	24 rxns/96 rxns	NA215-01/02	120/412

DNA Library Preparation Standalone Enzymes

Product Name	Size	Cat. No.	Price (USD)
T4 DNA Ligase (Rapid)	600,000 U	N103-01	936
Phi29 MAX DNA Polymerase	250 U/1,250 U	N106-01/02	130/585

DNA Library Adapter

Product Name	Size	Cat. No.	Price (USD)
VAHTS DNA Adapters Set 3 - Set 6 for Illumina	20 µl each	N805/N806/N807/N808	315
VAHTS Multiplex Oligos Set 4 - Set 5 for Illumina	192 rxns	N321/N322	875
VAHTS Dual UMI UDI Adapters Set 1 - Set 4 for Illumina	96 rxns	N351/N352/N353/N354	545
VAHTS Maxi Unique Dual Index DNA Adapters Set 1 - Set 4 for Illumina	384 rxns	N34201 - N34204	2,180
TruePrep Index Kit V2 for Illumina	192 rxns	TD202	422
TruePrep Index Kit V3 for Illumina	768 rxns	TD203	1,536
VAHTS AmpSeq Adapters for Illumina	12 × 10 rxns	NA111-01/02	780
	24 × 10 rxns	NA111-03/04/05	1,250
VAHTS AmpSeq Adapters for Ion Torrent	12 × 10 rxns	NA121-01/02	780
	24 × 10 rxns	NA121-03/04/05	1,250
VAHTS DNA Adapters Set 8 for MGI	10 µl each/40 µl each	NM108-01/02	1,130/4,065
VAHTS PCR-Free DNA Adapters Set 1 - Set 4 for MGI	20 µl each	NM10901 - NM10904	696
VAHTS Dual UMI UDB Adapters Set 1 - Set 8 for MGI	96 rxns	NM35101-NM35108	546
TruePrep Dual Index Kit V1 for MGI	192 rxns	TDM201-01	422

RNA Library Preparation Series

RNA Library Preparation Kit (Apply to Illumina Platform)

Product Name	Size	Cat. No.	Price (USD)
HOT VAHTS Universal V8 RNA-seq Library Prep Kit for Illumina	24 rxns/96 rxns	NR605-01/02	990/3,025
NEW VAHTS Universal V10 RNA-seq Library Prep Kit for Illumina	24 rxns/96 rxns	NR606-01/02	1,100/3,560
VAHTS Small RNA Library Prep Kit for Illumina V2	24 rxns/96 rxns	NR811-01/02	1,340/4,555
UltraClean ds-cDNA Synthesis Module (+gDNA wiper)	24 rxns/48 rxns/96 rxns	UNR201-01/-02/-03	668/1,306/2,175

RNA Library Preparation Kit (Apply to MGI Platform)

Product Name	Size	Cat. No.	Price (USD)
VAHTS Universal V8 RNA-seq Library Prep Kit for MGI	24 rxns/96 rxns	NRM605-01/02	990/3,025
NEW VAHTS Universal V10 RNA-seq Library Prep Kit for MGI	24 rxns/96 rxns	NRM606-01/02	1,100/3,560

RNA Library Preparation Module

Product Name	Size	Cat. No.	Price (USD)
HOT VAHTS mRNA Capture Beads 2.0	24 rxns/96 rxns	N403-01/02	65/235
Ribo-off rRNA Depletion Kit (Human/Mouse/Rat)	24 rxns/96 rxns	N406-01/02	1,123/3,975
Ribo-off rRNA Depletion Kit (Plant)	12 rxns/24 rxns	N409-01/02	1,250/2,250
Ribo-off rRNA Depletion Kit V2 (Bacteria)	12 rxns/24 rxns	N417-01/02	550/972
Ribo-off Globin & rRNA Depletion Kit (Human/Mouse/Rat)	24 rxns/96 rxns	N408-01/02	1,123/3,975
Ribo-MagOff rRNA Depletion Kit (Human/Mouse/Rat)	12 rxns/24 rxns	N420-01/02	999/1,795
NEW FastSelect rRNA Kit (Human)	24 rxns/96 rxns	N460-01/02	1,179/4,247

RNA Library Adapter

Product Name	Size	Cat. No.	Price (USD)
VAHTS RNA Adapters Set 3 - Set 6 for Illumina	20 µl each	N809/N810/N811/N812	252
VAHTS RNA Multiplex Oligos Set 1 - Set 2 for Illumina	192 rxns	N323/N324	592
VAHTS Small RNA Index Primer Kit for Illumina	48 rxns	N813/N814/N815/N816	295
VAHTS RNA Adapters Set 8 for MGI	10 µl each/40 µl each	NM208-01/02	950/3,100

Single-Cell Seq Series

Single-Cell Genome Sequencing

Product Name	Size	Cat. No.	Price (USD)
Discover-sc Single Cell WGA Kit	24 rxns/96 rxns	N603-01/02	648/2,150
Discover-sc WTA Kit V2	12 rxns/24 rxns/96 rxns	N711-01/02/03	905/1,565/4,510

Epigenetics Series

DNA Methylation

Product Name	Size	Cat. No.	Price (USD)
EpiArt DNA Methylation Library Kit for Illumina V3	24 rxns/96 rxns	NE103-01/02	1,560/5,568
NEW EpiArt DNA Enzymatic Methylation Kit	24 rxns/96 rxns	EM301-01/02	153/537
NEW EpiArt Magnetic DNA Methylation Bisulfite Kit	50 rxns/200 rxns	EM103-01/02	142/478

Nucleic Acid-Protein Interaction

Product Name	Size	Cat. No.	Price (USD)
NEW VAHTS Concanavalin A-coated Magnetic Beads Pro	250 µl/1 ml/5 ml	N515-01/02/03	90/325/1,459
Hyperactive Universal CUT&Tag Assay Kit for Illumina	12 rxns/48 rxns	TD903-01/02	750/2,785
HOT Hyperactive Universal CUT&Tag Assay Kit for Illumina Pro	12 rxns/48 rxns	TD904-01/02	792/2,923
Hyperactive pG-MNase CUT&RUN Assay Kit for PCR/qPCR	24 rxns/48 rxns	HD101-01/02	456/792
Hyperactive pG-MNase CUT&RUN Assay Kit for Illumina	24 rxns	HD102-01	792

Chromatin Accessibility

Product Name	Size	Cat. No.	Price (USD)
TruePrep DNA Library Prep Kit V2 for Illumina	24 rxns/96 rxns	TD501/TD502/ TD503-01/02	745/2,784
NEW Hyperactive ATAC-Seq Library Prep Kit for Illumina	12 rxns/48 rxns	TD711-01/02	845/3,045

Beads Series

Clean-Up Beads

Product Name	Size	Cat. No.	Price (USD)
HOT VAHTS DNA Clean Beads	5 ml/60 ml/450 ml	N411-01/02/03	315/1,165/5,830
VAHTS RNA Clean Beads	5 ml/40 ml/450 ml	N412-01/02/03	175/735/7,520

Streptavidin Magnetic Beads

Product Name	Size	Cat. No.	Price (USD)
VAHTS CA-28 Streptavidin	2.5 ml/10 ml	N512-01/02	490/1,755

Magnetic Rack

Product Name	Size	Cat. No.	Price (USD)
Magnetic Separation Rack	32 wells (200 µl/well)	CM101	280
Magnetic Separation Rack	24 wells (1.5 ml/well)	CM103	280

Quantification Series

qPCR Library Quantification

Product Name	Size	Cat. No.	Price (USD)
VAHTS Library Quantification Kit for Illumina 2.0	500 rxns	NQ107	450
VAHTS Library Quantification Kit for Illumina DNA Standard 1 - 6	8 rxns	NQ105	375
Library Dilution Buffer	50 ml	NQ106	95

Qubit Quantification

HOT

Product Name	Size	Cat. No.	Price (USD)
Equalbit 1 × dsDNA HS Assay Kit	100 assays/500 assays	EQ121-01/02	105/320
Equalbit dsDNA BR Assay Kit	100 assays/500 assays	EQ122-01/02	105/320
Equalbit RNA HS Assay Kit	100 assays/500 assays	EQ211-01/02	115/335
Equalbit RNA BR Assay Kit	100 assays/500 assays	EQ212-01/02	110/320

Capture Series

Capture Probe

Product Name	Size	Cat. No.	Price (USD)
VAHTS Target Capture Core Exome Panel	24 rxns/96 rxns	NC001-01/02	2,590/9,315

Capture Blockers & Amplification Primer

Product Name	Size	Cat. No.	Price (USD)
VAHTS Target Capture Universal Blockers and Post-PCR Primer Mix for Illumina-TS	24 rxns/96 rxns	NC101-01/02	1,320/4,720
VAHTS Target Capture Universal Blockers and Post-PCR Primer Mix for MGI-SI	24 rxns/96 rxns	NCM101-01/02	1,320/4,720

Capture Hybridization and Wash Kit

Product Name	Size	Cat. No.	Price (USD)
VAHTS Target Capture Hybridization and Wash Kit	24 rxns/96 rxns	NC103-01/02	576/1,968

Automated Liquid Handling Workstation

Automated Liquid Handling Workstation

Product Name	Size	Cat. No.
Automated Liquid Handling Workstation	1	VNL-96P

Reagents for Bio-Medicine

New Drug Research Products

Cell Viability Assay

Product Name	Size	Cat. No.	Price (USD)
CellCounting-Lite 2.0 Luminescent Cell Viability Assay	10/100/400 ml	DD1101-01/02/03	95/340/1,143
CellCounting-Lite 3D Luminescent Cell Viability Assay	10/100/400 ml	DD1102-01/02/03	131/463/1,633

Luciferase Reporter Gene Assay

Product Name	Size	Cat. No.	Price (USD)
Bio-Lite Luciferase Assay System	10/10 × 10/100 ml	DD1201-01/02/03	109/1021/953
NEW Duo-Lite Luciferase Assay System	10/100 ml	DD1205-01/02	187/1,361

New Drug Research Products

Add&Read TR-FRET Solution

Product Name	Size	Cat. No.	Price (USD)
Add&Read Human IgG Kit	500/10000 tests	DD2101-01/02	95/340/1,143
Add&Read Human Cytokine Quantification Kit	96/500/10000 tests	DD2703-01/02/03	652/1103/10290
		DD2704-01/02/03	
		DD2705-01/02/03	
		DD2706-01/02/03	
Add&Read cAMP Detection Kit	1000/5000/20000 tests	DD2801-01/02/03	773/2416/4815

mRNA Raw Materials

mRNA QC Reagents

Product Name	Size	Cat. No.	Price (USD)
EasyAna dsRNA (Modified) Quantitative Detection Kit (ELISA) 2.0	96 tests	DD3509EN-01	1,588
EasyAna T7 RNA Polymerase Quantitative Detection Kit (ELISA)	96 tests	DD3504EN-01	1,400
Double-stranded RNA (dsRNA) (Standard)	200 µl	DD3413	388
dsRNA-Pseudouridine-U (Standard)	200 µl	DD3436	388
dsRNA-N1-me-Pseudo-U (Standard)	200 µl	DD3437	388

mRNA GMP Enzymes

Product Name	Size	Cat. No.	Price (USD)
T7 Turbo RNA Polymerase (200 U/µl, GMP Grade)	1/5 /20 ml	GMP4120PB-01/02/03	3,311/16,555/59,610
T7 RNA Polymerase (200 U/µl, GMP Grade)	1/5 /20 ml	GMP4101PB-01/02/03	2,207/11,039/39,741
Murine RNase Inhibitor (40 U/µl, GMP Grade)	1/5 /20 ml	GMP4102PA-01/02/03	973/3,893/13,627
Pyrophosphatase, Inorganic (yeast, 0.1 U/µl, GMP Grade)	1/5 /20 ml	GMP4103PC-01/02/03	458/1,962/7,063
DNase I (1 U/µl, GMP Grade)	1/5 /20 ml	GMP4104PC-01/02/03	56/226/814
10 × Transcription Buffer (GMP Grade)	1/5 /20 ml	GMP4101R-01/02/03	182/844/2,813


mRNA R&D Reagents

Product Name	Size	Cat. No.	Price (USD)
T7 High Yield RNA Transcription Kit	50 rxns	DD4201-01	273
CAG EGFP mRNA (N1-Me-Pseudo UTP, 1mg/ml)	100 µg/1 mg	DD4503-01/02	345/2,860
Firefly Luciferase mRNA (N1-Me-Pseudo UTP, 1mg/ml)	100 µg/1 mg	DD4511-01/02	345/2,860



Lab Consumables

Molecular Biology Consumables



8-Tube PCR Strips

Product Name	Size	Cat. No.	Price (USD)	Picture
0.1 ml 8-Tube PCR Strips (with Caps)	125 Strips/Box	PCR00801	148	
	10 Boxes/Case	PCR00801-01	1332	
HOT 0.2 ml 8-Tube PCR Strips (with Caps)	125 Strips/Box	PCR00802	148	
	10 Boxes/Case	PCR00802-01	1332	
NEW 0.2 ml 8-Tube PCR Strips with Attached Caps	120 Strips/Box	PCR00822-01	148	
	10 Boxes/Case	PCR00822-02	1332	


Centrifuge Tubes

Product Name	Size	Cat. No.	Price (USD)	Picture
15 ml Centrifuge Tubes	500/Case (25/Pack, 20 Packs/Case)	TCF00115	164	
50 ml Centrifuge Tubes	500/Case (25/Pack, 20 Packs/Case)	TCF00150	219	
HOT 1.5 ml Microcentrifuge Tubes	500/Box (500/Pack, 1 Pack/Box)	TMC10115	18	
	5000/Case (500/Box, 10 Box/Case)	TMC10115-01	158	
2 ml Microcentrifuge Tubes	500/Box (500/Pack, 1 Pack/Box)	TMC12120	25	
	5000/Case (500/Box, 10 Box/Case)	TMC12120-01	198	



PCR Tubes

Product Name	Size	Cat. No.	Price (USD)	Picture
0.2 ml PCR Tubes	1000/Case (1000/Pack, 1 Pack/Box)	PCR00102	56	
	10000/Case (1000/Box, 10 Box/Case)	PCR00102-01	526	
HOT 0.5 ml PCR Tubes	500/Case (500/Pack, 1 Pack/Box)	PCR00105	50	
	5000/Case (500/Box, 10 Box/Case)	PCR00105-01	480	


Shearing Tube

Product Name	Size	Cat. No.	Price (USD)	Picture
gDNA Shearing Tube	2/Box	TDS01501-01	80	
	10/Box	TDS01501-02	380	

96-Well PCR Plates

Product Name	Size	Cat. No.	Price (USD)	Picture
0.1 ml Semi-Skirted 96-Well PCR Plates	20/Box	PCR09601SS	81	
	120/Case (6 Boxes/Case)	PCR09601SS-01	439	
0.2 ml Semi-Skirted 96-Well PCR Plates	20/Box	PCR09602SS	81	
	120/Case (6 Boxes/Case)	PCR09602SS-01	439	

Sealing films

Product Name	Size	Cat. No.	Price (USD)	Picture
HOT Pressure-Activated Plate Sealing Films	100/Box	PCR09600PF	217	
Self-Adhesive Plate Sealing Films	100/Box	PCR09600SF	174	

Pipette Tips

Product Name	Size	Cat. No.	Price (USD)	Picture
10 µl Pipette Tips (Rack)	960/Box (96 Tips/Rack, 10 Racks/Box)	PTR00111	46	
	4,800/Case (96 Tips/Rack, 10 Racks/ Box, 5 Boxes/Case)	PTR00112	209	
200 µl Pipette Tips (Rack)	960/Box (96 Tips/Rack, 10 Racks/Box)	PTR02011	49	
	4,800/Case (96 Tips/Rack, 10 Racks/ Box, 5 Boxes/Case)	PTR02012	221	
1000 µl Pipette Tips (Rack)	960/Box (96 Tips/Rack, 10 Racks/Box)	PTR10011	52	
	4,800/Case (96 Tips/Rack, 10 Racks/ Box, 5 Boxes/Case)	PTR10012	235	
10 µl Pipette Tips (Filtered, Rack)	960/Box (96 Tips/Rack, 10 Racks/Box)	PTR00121	72	
	4,800/Case (96 Tips/Rack, 10 Racks/ Box, 5 Boxes/Case)	PTR00122	326	
200 µl Pipette Tips (Filtered, Rack)	960/Box (96 Tips/Rack, 10 Racks/Box)	PTR02021	75	
	4,800/Case (96 Tips/Rack, 10 Racks/ Box, 5 Boxes/Case)	PTR02022	339	
1000 µl Pipette Tips (Filtered, Rack)	960/Box (96 Tips/Rack, 10 Racks/Box)	PTR10021	78	
	4,800/Case (96 Tips/Rack, 10 Racks/ Box, 5 Boxes/Case)	PTR10022	352	
10 µl Pipette Tips	10,000/Case (1000 Tips/Pack, 10 Packs/Case)	PTB00112	157	
200 µl Pipette Tips	10,000/Case (1000 Tips/Pack, 10 Packs/Case)	PTB02012	169	
1000 µl Pipette Tips	5,000/Case (1000 Tips/Pack, 5 Packs/Case)	PTB10012	91	

Pipette Tips (Extended Length)

Product Name	Size	Cat. No.	Price (USD)	Picture
10 µl Extended Length Pipette Tips (Rack)	960/Box (96 Tips/Rack, 10 Racks/Box)	PTR00114-01	56	
	4,800/Case (96 Tips/Rack, 10 Racks/ Box, 5 Boxes/Case)	PTR00114-02	255	
200 µl Extended Length Pipette Tips (Rack)	960/Box (96 Tips/Rack, 10 Racks/Box)	PTR02014-01	60	
	4,800/Case (96 Tips/Rack, 10 Racks/ Box, 5 Boxes/Case)	PTR02014-02	270	
1000 µl Extended Length Pipette Tips (Rack)	960/Box (96 Tips/Rack, 10 Racks/Box)	PTR10014-01	63	
	4,800/Case (96 Tips/Rack, 10 Racks/ Box, 5 Boxes/Case)	PTR10014-02	285	
10 µl Extended Length Pipette Tips (Filtered, Rack)	960/Box (96 Tips/Rack, 10 Racks/Box)	PTR00124-01	88	
	4,800/Case (96 Tips/Rack, 10 Racks/ Box, 5 Boxes/Case)	PTR00124-02	394	
200 µl Extended Length Pipette Tips (Filtered, Rack)	960/Box (96 Tips/Rack, 10 Racks/Box)	PTR02024-01	93	
	4,800/Case (96 Tips/Rack, 10 Racks/ Box, 5 Boxes/Case)	PTR02024-02	410	
1000 µl Extended Length Pipette Tips (Filtered, Rack)	960/Box (96 Tips/Rack, 10 Racks/Box)	PTR10024-01	95	
	4,800/Case (96 Tips/Rack, 10 Racks/ Box, 5 Boxes/Case)	PTR10024-02	425	
10 µl Extended Length Pipette Tips	10,000/Case (1000 Tips/Pack, 10 Packs/Case)	PTB00113-02	190	
200 µl Extended Length Pipette Tips	10,000/Case (1000 Tips/Pack, 10 Packs/Case)	PTB02013-02	205	
1000 µl Extended Length Pipette Tips	5,000/Case (1000 Tips/Pack, 5 Packs/Case)	PTB10013-02	112	

Cell Culture Plastics

Serological Pipettes

Product Name	Size	Cat. No.	Price (USD)	Picture
5 ml Disposable Serological Pipette	200/Case (50/Pack, 4 Packs/Case)	CPP00005	62	
10 ml Disposable Serological Pipette	200/Case (50/Pack, 4 Packs/Case)	CPP00010	80	
25 ml Disposable Serological Pipette	200/Case (25/Pack, 8 Packs/Case)	CPP00025	150	
50 ml Disposable Serological Pipette	100/Case (25/Pack, 4 Packs/Case)	CPP00050	220	


Cell Culture Flasks

Product Name	Size	Cat. No.	Price (USD)	Picture
25 cm ² Cell Culture Flask	200/Case (10/Pack, 20 Packs/Case)	CCF00025	360	
75 cm ² Cell Culture Flask	100/Case (5/Pack, 20 Packs/Case)	CCF00075	340	
175 cm ² Cell Culture Flask	40/Case (5/Pack, 8 Packs/Case)	CCF00175	230	
225 cm ² Cell Culture Flask	25/Case (5/Pack, 5 Packs/Case)	CCF00225	180	

Cell Culture Plates



Product Name	Size	Cat. No.	Price (USD)	Picture
Cell Culture Plate, 6 Well	50/Case (1/Pack, 50 Packs/Case)	CCP01006-B	119	
Cell Culture Plate, 96 Well	50/Case (1/Pack, 50 Packs/Case)	CCP01096-B	150	
Cell Culture Plate, 12 Well	50/Case (1/Pack, 50 Packs/Case)	CCP01012	140	
Cell Culture Plate, 24 Well	50/Case (1/Pack, 50 Packs/Case)	CCP01024	150	

Cell Culture Dishes



Product Name	Size	Cat. No.	Price (USD)	Picture
60 mm Cell Culture Dish	500/Case (10/Pack, 50 Packs/Case)	CCD10060	290	
100 mm Cell Culture Dish	300/Case (10/Pack, 30 Packs/Case)	CCD10100	260	
150 mm Cell Culture Dish	100/Case (5/Pack, 20 Packs/Case)	CCD10150	350	

Consumables for Equipment



Robotic Pipette Tips

Product Name	Size	Cat. No.	Price (USD)	Picture	Use with
230 µl Robotic Pipette Tips	50 Boxes/Case	RTB02301	507		

Robotic Microwell Plates

Product Name	Size	Cat. No.	Price (USD)	Picture	Use with
0.2 ml Skirted Micro Well Plates	50 Plates/Box	RSP09602	290		

Robotic Deep Well Plates

Product Name	Size	Cat. No.	Price (USD)	Picture	Use with
1.3 ml Robotic Deep Well Plates	100 Plates/Case	RDP09613	464		

01
 Product Introduction
Nucleic Acid Extraction

RNA Extraction

III Selection Guide

Method	Sample Types	Final Product	Product Name	Cat. No.
Organic Extraction	Tissue Cell	Total RNA	FreeZol Reagent	R711-01/02
	Plant Fungi Bacteria Biological fluid		VeZol Reagent	R411-01/02
Spin Column	Plant	Total RNA (>200 nt)	FastPure Universal Plant Total RNA Isolation Kit	RC411-01
			FastPure Plant Total RNA Isolation Kit (Polysaccharide- and polyphenol-rich)	RC401-01
	Tissue Cell		FastPure Cell/Tissue Total RNA Isolation Kit V2	RC112-01
	Plant Tissue Cell		VeZol-Pure Total RNA Isolation Kit	RC202-01
	Tissue Cell		miRNA	MiPure Cell/Tissue miRNA Kit

Total RNA Extraction

Total RNA Extraction

VeZol Reagent (#R411)

FastPure Cell/Tissue Total RNA Isolation Kit V2 (#RC112)

Features

- Ultra classical organic extraction reagent
- Super lysis capability
- RNA extraction from a wide variety of samples are available



Features

- Simple 6 min procedure
- Safe and low toxic

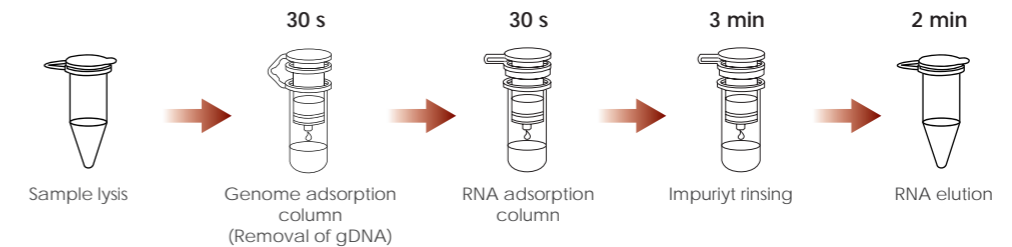
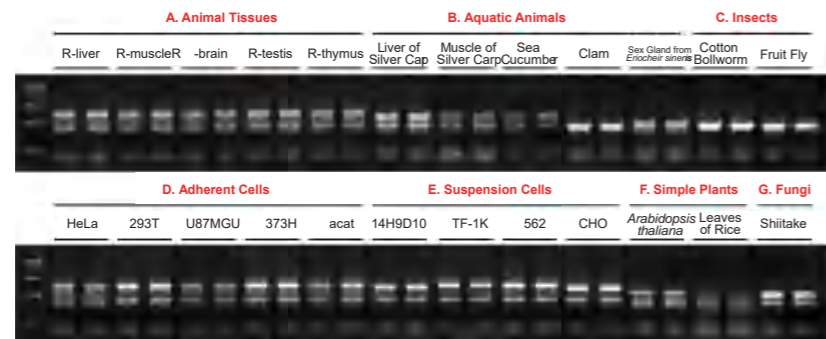


Wide Compatibility

Total RNA was extracted by Vazyme #R411 from different animal tissues (including aquatic animals and insects), cultured cells, simple plants and macro fungi. Then the RNA products were analyzed by gel electrophoresis.

Super Fast

Process sample inputs from 10 to 20 mg of animal tissue or less than 5×10^6 cultured cells with one spin column in 6 min.

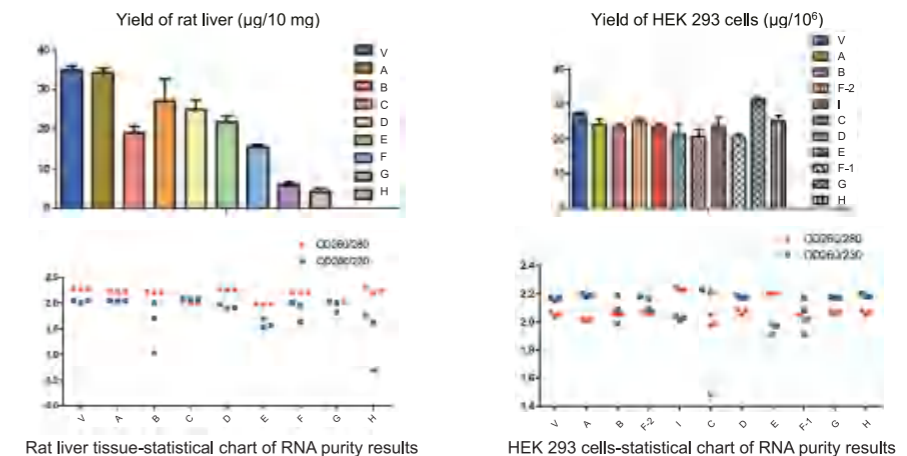
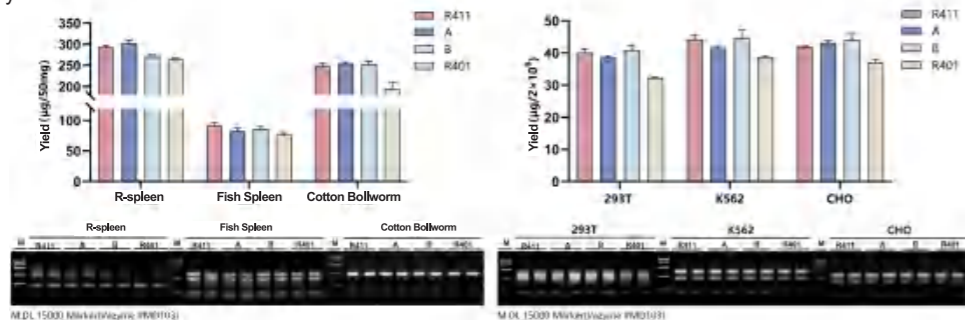


High Quality

Vazyme #RC112 and commercially available similar products (from Suppliers A, B, C, D, E, F, G, H, and I) were used to extract total RNA from the rat liver tissue (10 mg) and HEK 293 cells as per their respective Instructions for Use. The extracted RNA was detected for concentration and purity. From the figure, it can be seen that Vazyme #RC112 has a higher yield than the other commercially available products for both sample types, and the $OD_{260/280}$ and $OD_{260/230}$ ratios are closer to the standard values, indicating better RNA purity.

High Quality

Total RNA was extracted from different animal tissues and cultured cells using Vazyme #R411 with other similar products (Supplier A, Supplier B and Vazyme #R401), and the concentration was determined and detected by agarose gel electrophoresis. The results show that the extracted RNA by Vazyme #R411 has high yield and good integrity.



Total RNA Extraction

FastPure Universal Plant Total RNA Isolation Kit (#RC411)

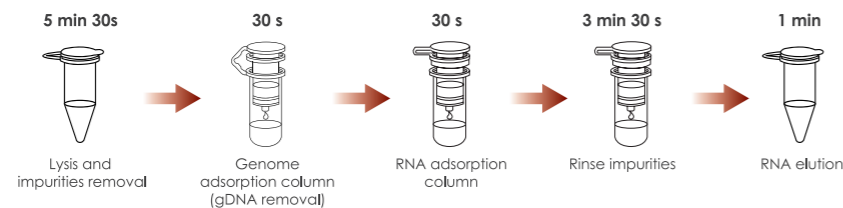
Features

- Simple 11 min procedure
- No need for phenol or chloroform and β -mercaptoethanol
- Compatible with plants rich in polysaccharide and polyphenol



Simple and Fast

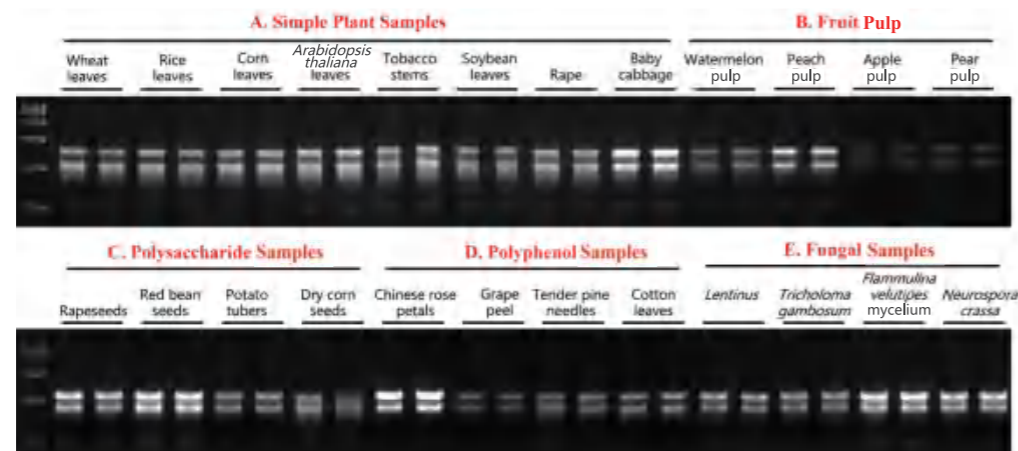
Vazyme #RC411 is easy to use. The operation can be completed at room temperature within 11 min.



Only 11 minutes

Wide Compatibility

RNA was extracted from different plants (common plants, fruit pulp, polysaccharide- and polyphenol-rich plants) and fungal samples with Vazyme #RC411, and analyzed by agarose gel electrophoresis. As can be seen from the figure, Vazyme #RC411 is compatible with many types of plant samples and some fungal samples.



DNA Extraction

III Selection Guide

Method	Sample Types	Final Product	Product Name	Cat. No.	
Spin Column	Blood Cell Tissue Bacteria	gDNA	FastPure Blood/Cell/Tissue/Bacteria DNA Isolation Mini Kit	DC112-01/02	
	Plant		FastPure Plant DNA Isolation Mini Kit	DC104-01	
	FFPE		FastPure FFPE DNA Isolation Kit	DC105-01	
	Bacterial Cultures	Plasmid DNA	FastPure Plasmid Mini Kit	DC201-01	
			FastPure EndoFree Plasmid Mini Kit	DC203-01	
			FastPure EndoFree Plasmid Maxi Kit V2	DC212-C1	
	Gel PCR Products	Recovered DNA	FastPure Gel DNA Extraction Mini Kit	DC301-01	
	Magnetic Beads	Whole Blood	gDNA	VAMNE MagUltra Blood Genomic DNA Extraction Kit	DM101-01
				Magnetic Blood DNA Extraction Kit (Prepackaged)	DM102-01/02
		Plasma Serum	Cell-free DNA	VAHTS Serum/Plasma Circulating DNA Kit	N902-01/02
VAMNE MagUltra Circulating Cell-free DNA Isolation Kit				N913-01/02	

DNA Extraction

FastPure Blood/Cell/Tissue/Bacteria DNA Isolation Mini Kit (#DC112)

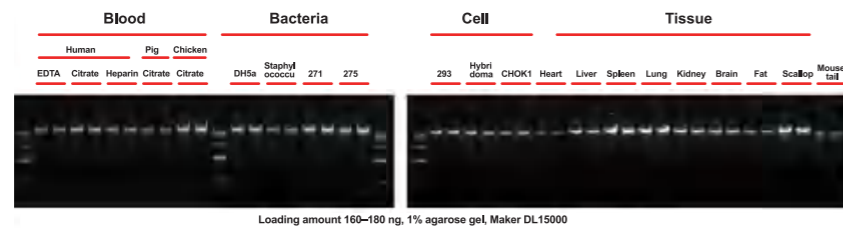
Features

- **High quality and integrity**
- **Suitable for direct DNA extraction from a variety of fresh or frozen anticoagulant, cell, animal tissue and bacterial samples**
- **Animal tissue offers a 30-minute fast extraction protocol**



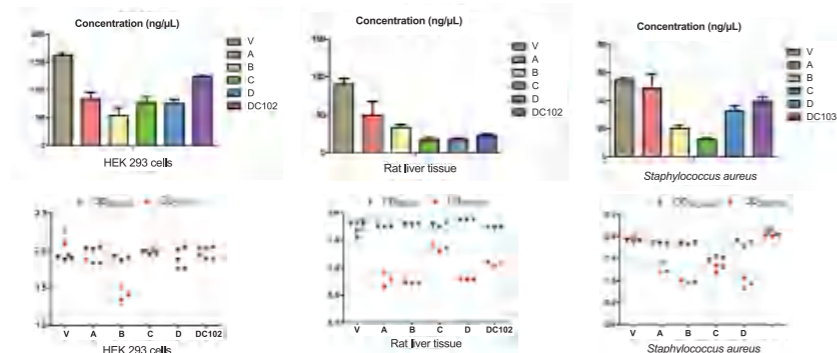
Wide Sample Applicability

Vazyme #DC112 was used for the DNA extraction and purification of the following 21 samples. And the final DNA product was detected by agarose gel electrophoresis. The elution volume was 100 μ l, and 1% agarose gel electrophoresis was run with a sample volume of 160 - 180 ng. Results show that the kit is widely compatible with sample types and purifies high quality genomic DNA from different species.



High DNA Yields and Purity

Genomic DNA was extracted from HEK 293 cells, rat liver tissue, and *Staphylococcus aureus* with Vazyme #DC112 ("V" in the figures), products of Suppliers A, B, C, and D, and similar products of Vazyme. The obtained DNA was detected for concentration and purity. It can be seen from the figures that for each sample type, Vazyme #DC112 extracts genomic DNA with a higher yield than the other similar products, and the $OD_{260/280}$ and $OD_{260/230}$ ratios are closer to the standard values, indicating better DNA purity.



Plasmid DNA Extraction

FastPure Plasmid Mini Kit (#DC201)

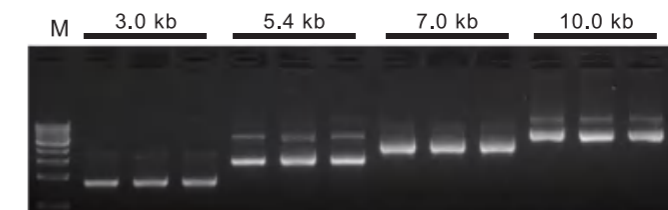
Features

- **Fast and Easy:** No need for column equilibration; simple and fast extraction from multiple samples within 30 min
- **High Purity:** Extracted pure plasmid DNA that can be used in most molecular applications (sequencing, cloning, PCR)
- **High Yields:** Each column adsorbs up to 35 μ g of plasmid DNA



High Yields

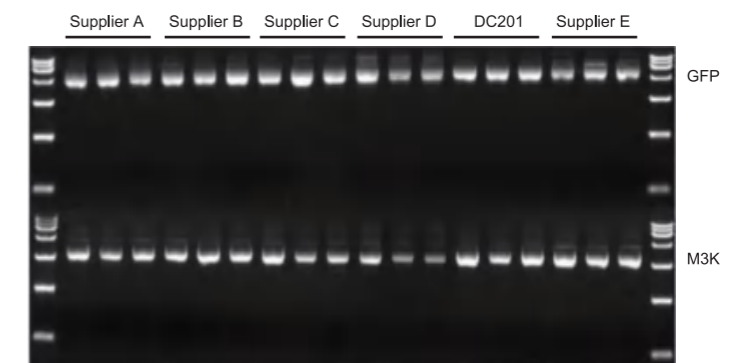
The FastPure Plasmid Mini Kit was used to extract plasmids of 3.0 kb, 5.4 kb, 7.0 kb, and 10.0 kb, respectively, and the extraction products were analyzed by agarose gel electrophoresis. Results show that the kit performs well and gives high yields for plasmids of various sizes.



M: 1 kb DNA Ladder (Vazyme #MD105)

High Integrity

GFP plasmid and M3K plasmid transformed to *E. coli* was purified by Vazyme #DC201 and similar products (Suppliers A, B, C, D and E). Plasmid DNA integrity and RNA residue were tested by 1.0% agarose gel electrophoresis. As shown in the figure, Vazyme #DC201 is equivalent to suppliers A - E. Under the same conditions, there is no RNA residue.



M: DL15000 DNA Marker (Vazyme #MD103)

DNA Clean Up

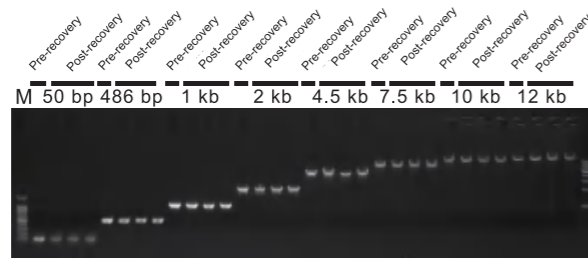
FastPure Gel DNA Extraction Mini Kit (#DC301)

- ### Features
- Process sample with one spin column in 10 - 15 min
 - Applicable to PCR cleanup and gel extraction
 - Recovery efficiency is up to 80%
 - The recovered fragment of DNA is 70 bp - 20 kb



High Recovery Efficiency

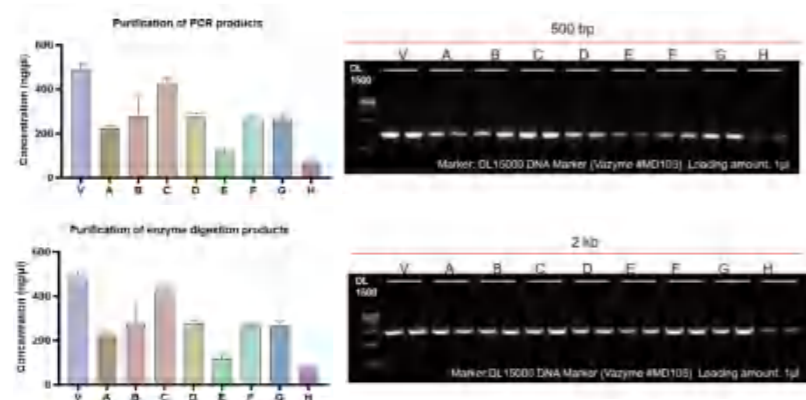
PCR products of 50 bp, 486 bp, 1 kb, 2 kb, 4.5 kb, 7.5 kb, 10 kb, and 12 kb are purified, respectively, and both the pre-recovery and post-recovery DNA fragments were analyzed by agarose gel electrophoresis. Results show that the kit delivers good recovery in the fragment range of 50 bp - 12 kb.



M:1 kb DNA Ladder (Vazyme #MD105)

Higher Yields

Vazyme #DC301 and commercially available products (A, B, C, D, E, F, G, H) were used to purify and recover PCR products (500 bp) and enzyme digestion products (2 kb) according to their respective procedures, and the concentration were detected. The results show that the purification effect of Vazyme #DC301 is superior to other products.



Microbiome Nucleic Acid Extraction

III Selection Guide

Method	Sample Types	Time	Final Product	Product Name	Cat. No.
Magnetic Beads	Blood Biological fluid Swabs	44 min	Viral, bacterial, fungal DNA/RNA	VAMNE Magnetic Pathogen DNA/RNA Kit	RM601-01
Spin Column	Blood/Serum/Plasma Swabs Tissue Semen	11 min	Viral DNA/RNA	FastPure Viral DNA/RNA Mini Kit V2	RC313-01
	Blood Swabs Tissue homogenate Biological fluid	12 min		FastPure Viral DNA/RNA Mini Kit Pro	RC323-01
	Blood Biological fluid Swabs Bacteria Tissue	23 min	Microbial DNA and host DNA	FastPure Microbiome DNA Isolation Kit	DC502-01

Virus DNA/RNA Extraction

FastPure Viral DNA/RNA Mini Kit Pro (#RC323)

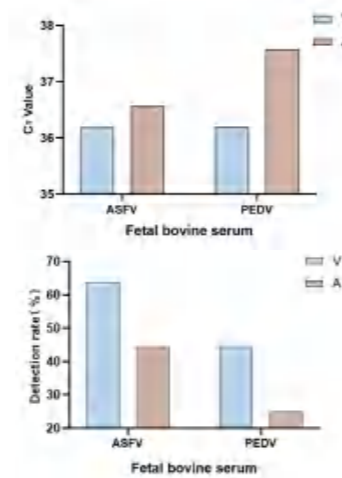
Features

- Easy capture of trace amounts of nucleic acids
- Operate at room temperature for 12 min



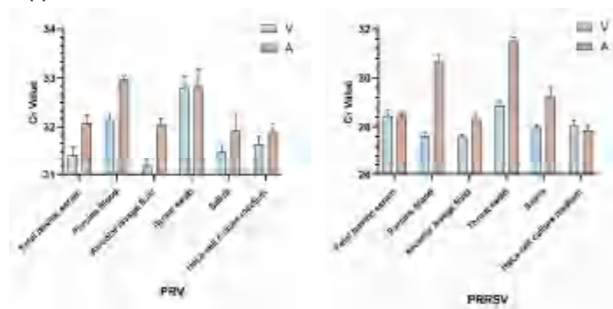
Efficient Extraction of Trace Nucleic Acids

Detection of low concentrations of African Swine Fever Virus (ASFV) and Porcine Epidemic Diarrhea Virus (PEDV) in fetal bovine serum samples with different dilution gradients. The extraction was carried out according to the extraction process of Vazyme #RC323 (V) and a similar product of supplier A. Then the extracted products were detected by qPCR. The lower the average C_T value, the higher the extraction efficiency. The higher the number of detections, the higher the detection rate. The results show that the extraction efficiency and detection rate of Vazyme #RC323 for low-concentration virus samples are better than those of similar products from supplier A.



Wide Sample Compatibility

Detection of Pseudorabies virus (PRV) and Porcine Reproductive and Respiratory disorder Syndrome Virus (PRRSV) in fetal bovine serum, porcine blood, alveolar lavage fluid, throat swab, saliva and HeLa cell culture medium. The above samples were extracted by Vazyme #RC323 (V) and a similar product of supplier A (A). Then the products were detected by qPCR assay. The lower the average C_T value, the higher the extraction efficiency. The results show that the extraction efficiency of Vazyme #RC323 for DNA and RNA viruses from different samples is basically better than that a similar product from supplier A.



Automatic Nucleic Acid Isolation System

Instrument

Product Name	Cat. No.	Samples per Run	Consumables	Final Product
Automatic Nucleic Acids Extraction Instrument	VNP-32P	32	96 Deep Well Plate	<ul style="list-style-type: none"> • Microbial DNA/RNA • cfDNA • Total RNA • gDNA
Full-automatic Nucleic Acids Extraction Instrument	VNP-96P	96		

Automatic Extraction Kits

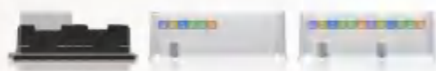
Series	Applicable Sample	Program Running Time	Product Name	Product Name Cat. No.	
				Use with VNP-32P	Use with VNP-96P
RNA Extraction	Animal cells and tissues	40 min	VAMNE Magnetic Cell/Tissue Total RNA Extraction Kit	RMA101-01/02	RMA102-01
	Animal cells and tissues, simple plants	36min	VAMNE Magnetic Universal Total RNA Kit	ROA3301-01 ROA3302-01/02	ROA3303-01
DNA Extraction	Animal cells, tissues, bacteria	46 min	FastPure Bacteria DNA Isolation Kit	DC112-C3	DC112-C6
	Blood, buccal swab	48 min	Magnetic Blood DNA Extraction Kit	DM102-01	-
	FFPE	32 min	VAMNE MagUltra FFPE DNA Extraction Kit	DM602-01	-
cfDNA Extraction	Serum, plasma	26 min	VAMNE MagUltra Circulating Cell-free DNA Isolation Mini Kit	N904-C1	N904-C2
Microbial DNA & RNA Extraction	Blood, swab, stool, etc	19 min	Virus DNA/RNA Extraction Kit 3.0	RM501-01/02/03	RM502-01
	Blood, swab, sputum, etc	28 min	VAMNE Magnetic Pathogen DNA/RNA Kit	RM602-01	-
Microbial DNA Extraction	Stool, soil	20 min	VAMNE Stool/Soil DNA Extraction Kit	DMA5101-01 DMA5102-01/02	DMA5103-01

Virus DNA/RNA Extraction

FastPure Viral DNA/RNA Mini Kit Pro (#RM501)

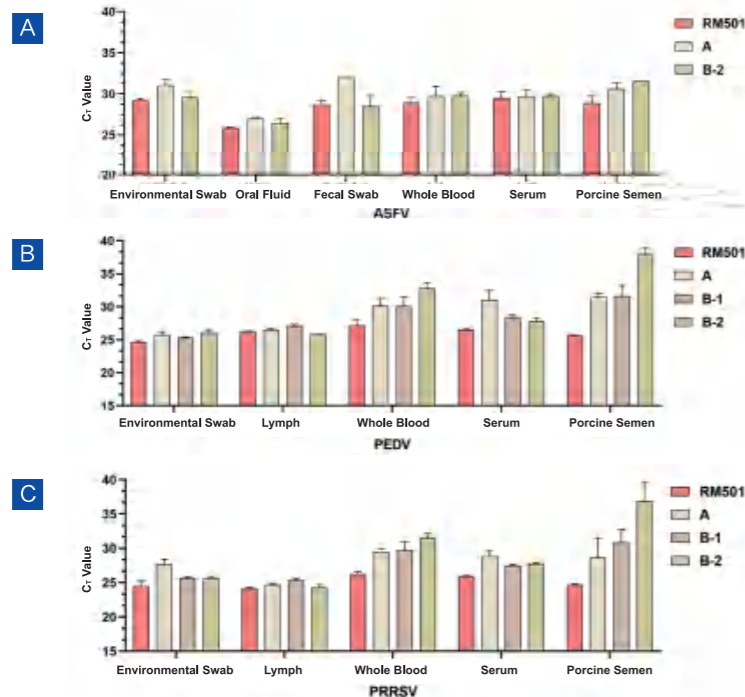
Features

- **High Sensitivity:** Efficiently detect low concentration samples and reduce the risk of missed detection
- **Easy to Operate:** Process up to 32/96 individual samples in 19 minutes
- **Flexible Throughput:** Choose 1 T, 8 T or 16 T so you can process a wide range of throughputs
- **Safe and Nontoxic:** No toxic reagents and pungent odor, ensuring the safety of operation



Compatible with Complex Samples

The positive samples of African swine fever virus (ASFV) (Figure 1A), porcine epidemic diarrhea virus (PEDV) (Figure 1B), and porcine reproductive and respiratory syndrome virus (PRRSV) (Figure 1C) were extracted with Vazyme #RM501 and similar products (Supplier A, Supplier B-1, Supplier B-2). The extracted products were detected by qPCR assays. The results show that Vazyme #RM501 exhibits better sample compatibility for both DNA and RNA viruses.



Total RNA Extraction

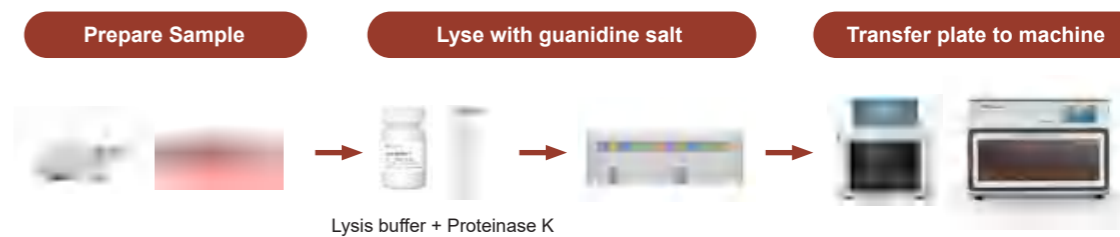
VAMNE Magnetic Cell/Tissue Total RNA Kit (#RMA101)

Features

- **Free Your Hands:** Fully automated extraction and easy to obtain high quality RNA from animal cell and tissue samples
- **Time and Labor Saving:** Obtain 96 samples in just 40 minutes
- **Safe and Efficient:** No use of toxic reagents like phenol-chloroform

Fully Automated Extraction

The fully automated extraction process runs without interruption; 96 samples can be extracted in 40 minutes.



High Compatibility

Table 1 The tested sample types using Vazyme #RMA101

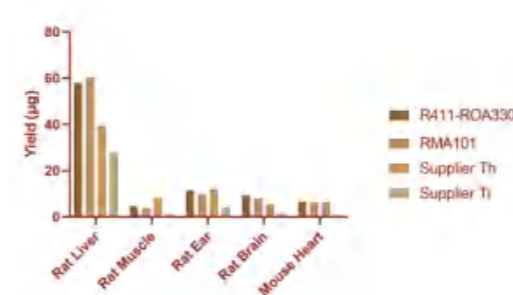


Figure 1. The mean yielded of extracted RNA from 10 mg different animal tissues

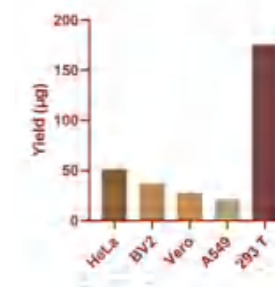


Figure 2. The mean yielded of extracted RNA from different cell types

FFPE DNA Extraction

Nucleic Acids Extraction Instrument

VAMNE MagUltra FFPE DNA Extraction Kit (#DM602)

Automatic Nucleic Acids Extraction Instrument(#VNP-32P_VNP-96P)

Features

- **Safe and Non-Toxic:** Use environmentally friendly and non-toxic deparaffinization solution
- **High Yield and Quality:** The extracted products have high yield and excellent purity, with no inhibition on downstream processes, and stable and reliable extraction results

Features

- **Fast and efficient:** With prepackaged extraction reagents, 1 - 96 samples can be extracted in as little as 10 minutes
- **Easy to operate:** The operation interface is simple and easy to understand, preset extraction program, one-click start and run
- **Security and intelligence:** Equipped with door opening protection function to prevent contamination and safety problems caused by accidental door opening in experiments
- **Efficient anti-contamination:** Built-in UV disinfection function effectively reduces cross-contamination between samples

High Quality Extraction Product

Operation Principles



Figure 1. DNA Gel Electrophoresis Images for Vazyme #DM601/#DM602 and Suppliers A - E for 30 mm2 Mouse FFPE Sections (Lung/Liver/Spleen)



Samples are added into lysis buffer, and the cells or pathogens are broken to release nucleic acid. Nucleic acid absorb to magnetic beads by hydrogen bonding or electrostatic interaction.

Magnetic rods transfer magnetic beads to wash buffer and remove protein and salt ions by repeated washing.

Magnetic rods transfer magnetic beads to eluent. The obtained high quality nucleic acid can be directly used for next experiment.

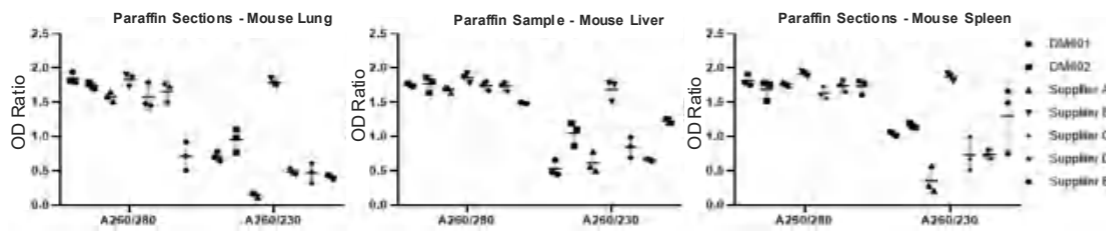


Figure 2. DNA Purity for Vazyme #DM601/#DM602 and Suppliers A - E for 30 mm2 Mouse FFPE Sections (Lung/Liver/Spleen)



- DNA and RNA for Scientific research service
- RNA for gene expression
- Genetic testing
- FFPE for cancer research
- Infectious disease and microbiome research

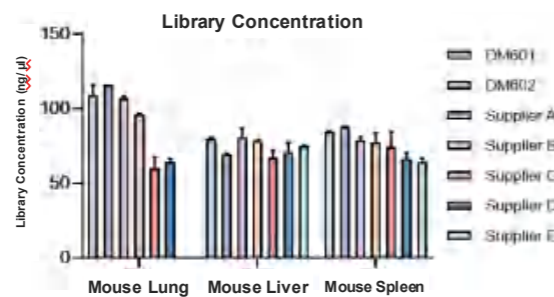


Figure 3. Library Concentration for 100 ng of Input DNA Extracted from Mouse Spleen FFPE Sections Using Vazyme #DM601/#DM602 and Suppliers A - E

DNA for downstream analysis

02
 Product Introduction
**Molecular Biology
 Research Reagents**

PCR Series Products

III Selection Guide

		Cat. NO.	Master Mix	Hot-Start	5' 3' exonuclease activity	Fidelity (*Taq)	Blunt or 3'A ends	Target length	Extension times
High-Fidelity	2 × Phanta Flash Master Mix (Dye Plus)	P520	✓	Antibody		106×	Blunt	•••	•••
	2 × Phanta UniFi Master Mix (Dye Plus)	P526	✓	Antibody		220×	Blunt	•••	••
	Phanta Flash Super-Fidelity DNA Polymerase	P521		Antibody		106×	Blunt	•••	•••
	Phanta Max Super-Fidelity DNA Polymerase	P505		Antibody		128×	Blunt	•••	••
Conventional	Taq DNA Polymerase (Mg2+ plus buffer)	P101		NO	✓	1×	3'A	••	
	2 × Taq Master Mix (Dye Plus)	P112	✓	NO	✓	1×	3'A	•	•
	3G Taq Master Mix for PAGE (Red Dye)	P115	✓	NO	✓	1×	3'A	•	•
Rapid & Hot Start	Rapid Taq Master Mix	P222	✓	NO	✓	1×	3'A	••	•••
	2 × Rapid Taq Plus Master Mix (Dye Plus)	P223	✓	Antibody	✓	1×	3'A	••	••••
High-Yield & Direct	2 × Phanta Flash Master Mix (Dye Plus)	P212	✓	NO	✓	6×	3'A/Blunt	••	••
	2 × Phanta UniFi Master Mix (Dye Plus)	P213	✓	NO	✓	6×	3'A/Blunt	••	••
	Phanta Flash Super-Fidelity DNA Polymerase	PD101	✓	NO	✓	6×	3'A	•	••
	Phanta Max Super-Fidelity DNA Polymerase	PD105	✓	Antibody		52×	Blunt	•	••
Multiplex & Long	2 × Phanta Flash Master Mix (Dye Plus)	PM201		Antibody	✓	1×	3'A	•	••
	2 × Phanta UniFi Master Mix (Dye Plus)	PM202		Antibody	✓	1×	3'A	••	•
	Phanta Flash Super-Fidelity DNA Polymerase	P311	✓	NO	✓	6×	3'A/Blunt	•••	••
	Phanta Max Super-Fidelity DNA Polymerase	P312	✓	NO	✓	6×	3'A/Blunt	•••	••

High-Fidelity PCR

High-Fidelity PCR

2 × Phanta UniFi Master Mix (#P516) | 2 × Phanta UniFi Master Mix (Dye Plus) (#P526)

2 × Phanta Flash Master Mix (#P510) | 2 × Phanta Flash Master Mix (Dye Plus) (#P520)

Features

- **Ultra-high fidelity:** ~220X higher than *Taq* DNA Polymerase
- **Universal program:** Universal primer annealing at 60°C
- **Fast amplification:** <10 kb, 15s/kb; ≥10 kb, 30s/kb
- **Broad Compatibility:** Suitable for GC-rich/poor systems, and multiplex amplification



Features

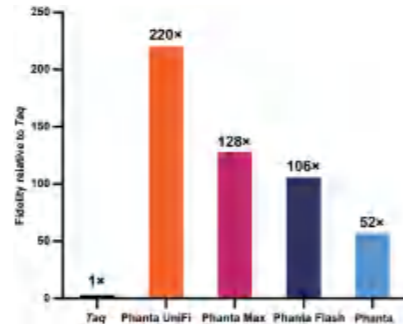
- **Flash amplification:** Amplification of fragments ≤ 10 kb can be completed in 1 h
- **High fidelity:** ~106X higher than *Taq* DNA Polymerase
- **Broad compatibility:** Suitable for complex samples & GC-rich systems



Validation Data

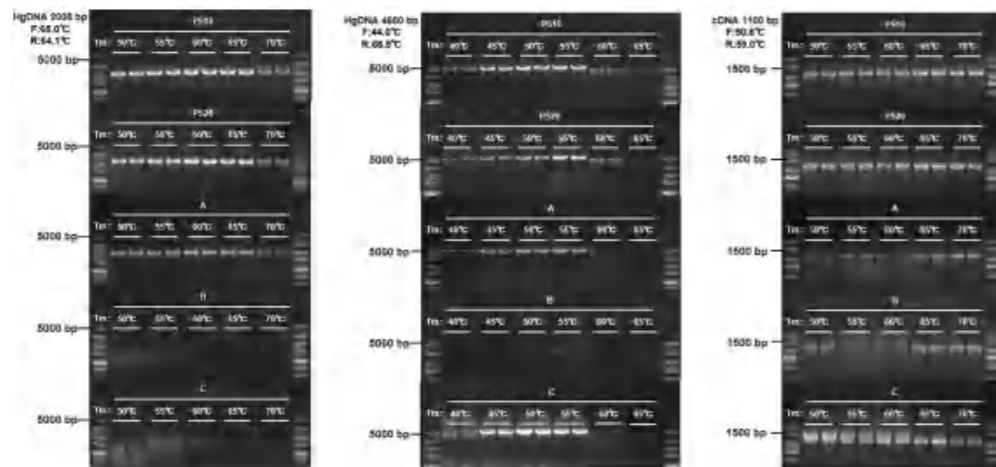
■ Ultra-high Fidelity

The fidelity amplification of different polymerases was determined using the next-generation sequencing method (P. Mielinis. et al. Journal of Molecular Biology (2021)). The result shows that the fidelity of Phanta UniFi DNA Polymerase is ~220 times that of *Taq* DNA Polymerase.



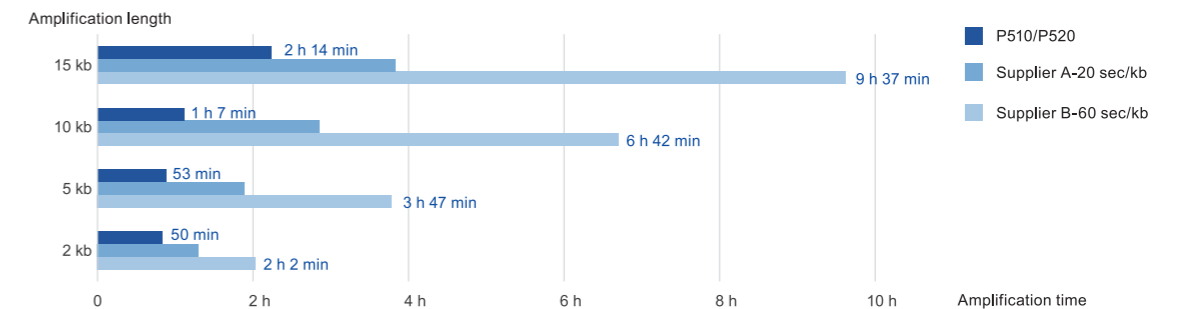
■ Universal Program

2 × Phanta UniFi Master Mix (Vazyme #P516)/2 × Phanta UniFi Master Mix (Dye Plus) (Vazyme #P526) were used for parallel comparison with Supplier A, Supplier B, and Supplier C. The results show that P516 and P526 have broad T_m compatibility and outperform Suppliers A, B, and C. They can efficiently amplify multiple fragments of varying lengths and T_m values on a single PCR machine.



Validation Data

■ Fast Amplification



The amplification time of P510/P520 compared with other competitive products
Extension time: DNA fragments ≤10 kb, 5 sec/kb; >10 kb, 10 sec/kb

■ High Specificity

Using Vazyme #P520, #P510 and other competitors of high-fidelity polymerases to amplify different lengths of fragments by the recommended systems and programs of respective manuals. The results show that P510 and P520 have higher amplification specificity than other competitors of high-fidelity polymerases.



Rapid PCR

2 × Rapid Taq Plus Master Mix (Dye Plus) (#P223)

Features

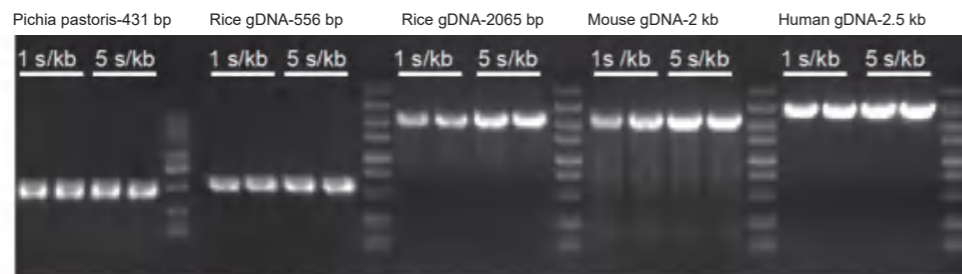
- **Rapid amplification:** 1-10 sec/kb (<2 kb, 1 sec/kb; <5 kb, 5 sec/kb; ≤15 kb, 10 sec/kb)
- **Hot start:** Dual-blocking antibody enables superior specificity and sensitivity
- **Broad compatibility:** Compatible with 24%-79% GC systems and 7-plex amplification
- **Convenience:** Store at 20°C without freezing, ready to use and include tracking dye



Validation Data

■ Ultra-fast Amplification

The extension rate for amplifying fragments within 2 kb (including genomic DNA or crude templates) can be up to 1 sec/kb.







■ High Success Rate

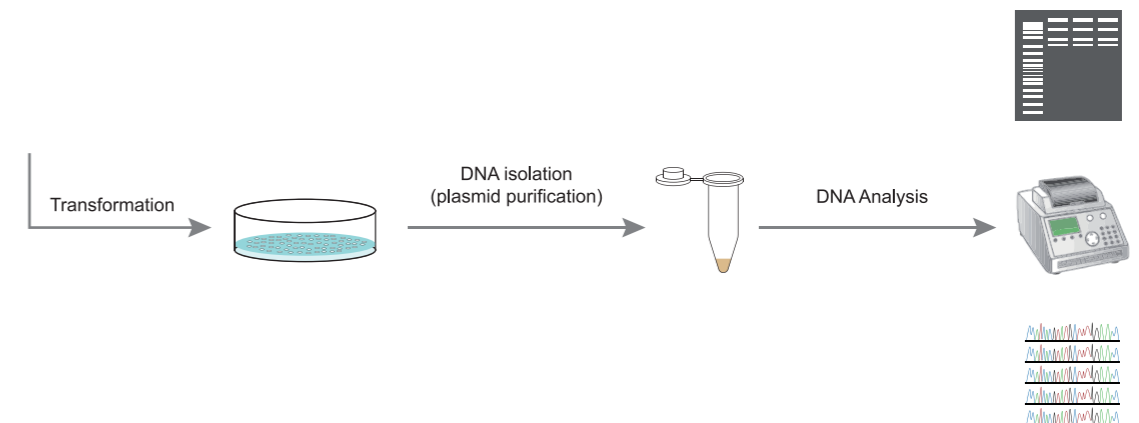
Vazyme #P223 and Supplier A~E were used to test the compatibility of GC-poor/rich systems. The results show that P223 is compatible with systems having a GC content range of 24% to 79%, and its amplification success rate and specificity are superior to those of Suppliers A~E.



Cloning/Mutagenesis Series Products

III Selection Guide

	 Seamless Cloning	 Site-Directed Mutagenesis	 Traditional/TA Cloning	 TOPO Cloning
Cat. No.	C117	C215	C311	C603
Concentration	2×	2×	2×	5×
Master Mix	✓	-	✓	✓
Features	1 - 11 fragments assembly	~128 × Taq	5 minutes, 25°C	5 minutes, 25°C
	5 - 30 minutes Recombination	Amplification of any site in the plasmid within 20 kb	Compatible with sticky ends & blunt ends	Vector self-ligation inhibitor factor
	95% Positive Rate	"CE Design" software	One-tube format	4th Generation Topoisomerase
Applications	Directional cloning of inserts into any site in any vector	Introduce point mutations, insertions, or deletions in any type of plasmid DNA	DNA fragments ligation	Cleavage and rejoining of DNA during replication



TOPO Cloning

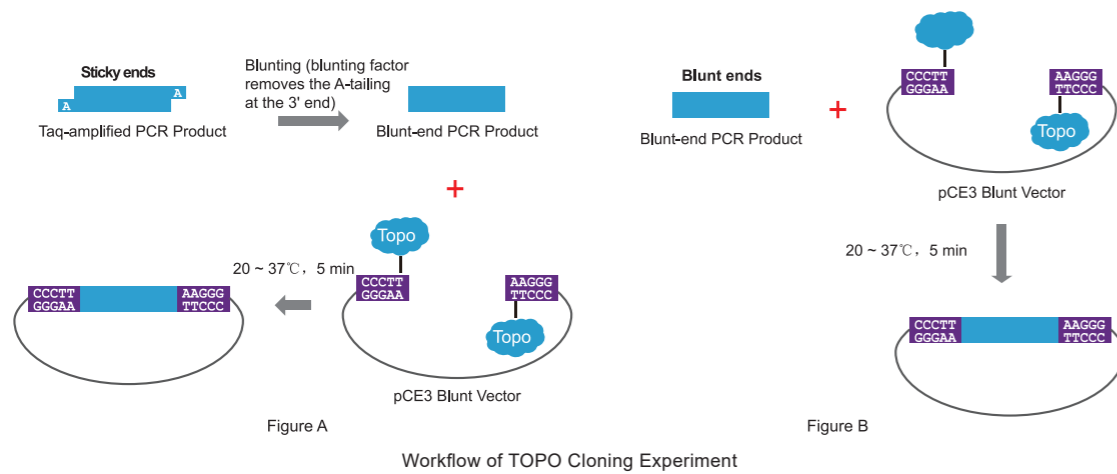
Ultra-Universal TOPO Cloning Kit (#C603)

Features

- **Fast:** Cloning of either sticky-end or blunt-end DNA in only 5 minutes
- **Efficient:** High efficiency cloning and positive rate >95%
- **Upgraded version:** 4th Generation enzyme; higher positive rate and colony counts
- **Vector self-ligation inhibitor factor:** Effectively prevent vector self-ligation and false positives



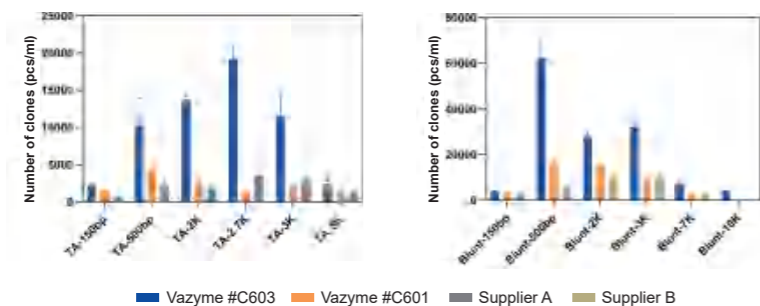
Mechanism



Validation Data

High-yield Single Clones

After testing 12 systems, the results show that the number of clones on Vazyme #C603 plates is higher than that of Supplier A and Supplier B.



Fast Cloning

ClonExpress Ultra One Step Cloning Kit V3 (#C117)

Features

- **Robust performance:** 1 - 11 fragments assembly; the positive rate is > 95%
- **High Efficiency:** 5 - 30 min rapid recombination; high clones and positivity rate
- **Broad Compatibility:** Suitable for ultra-low input and GC-rich/poor overlaps



Mechanism

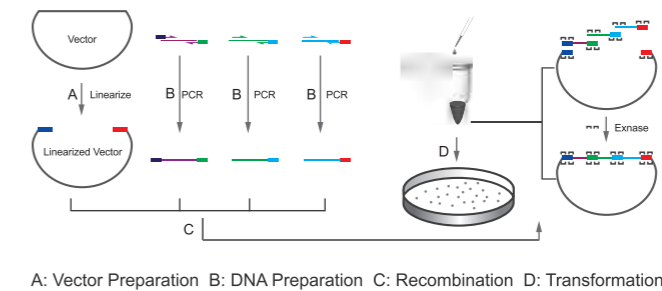


Fig.1 Workflow of Seamless Cloning Experiment

Validation Data

High Clone Count

After testing 30 systems, the results show that the number of clones on Vazyme #C117 plates is higher than that of Suppliers A, B, and C.

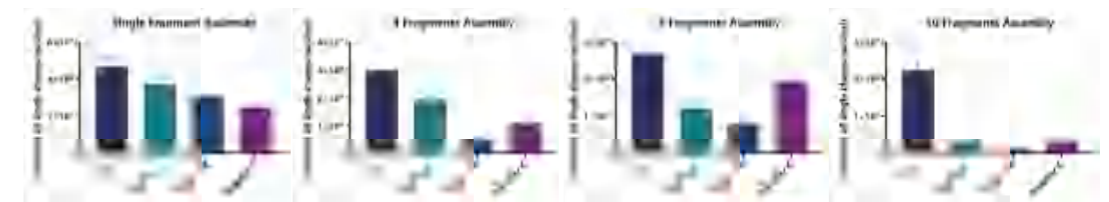


Fig. 2 Compatibility test of different fragment numbers

High Positivity Rate

After testing 30 systems, the results show that the positive rate of Vazyme #C117 is all above 95%.



Fig 3. Compatibility test of Vazyme #C117

Traditional/TA Cloning

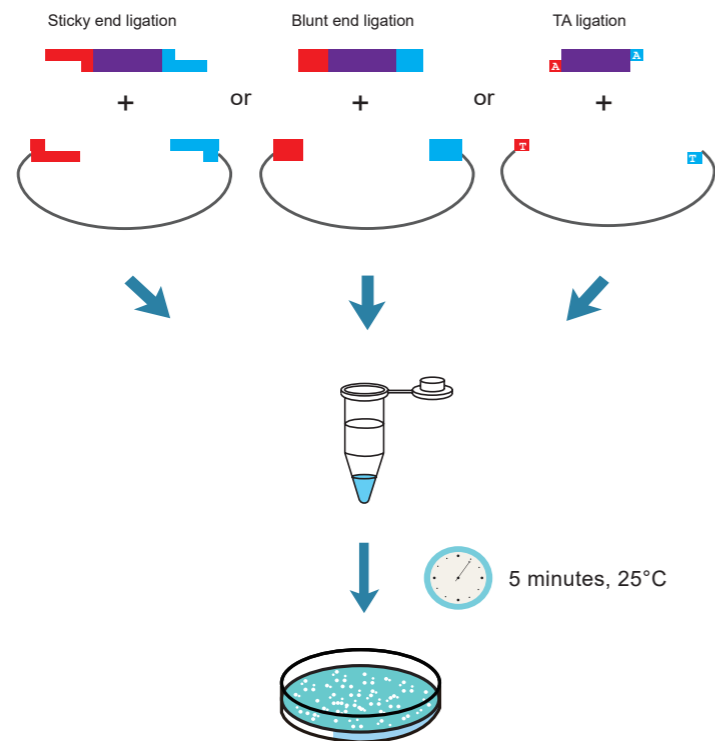
5min Universal Ligation Mix (#C311)

Features

- **Fast:** Ligation can be completed quickly in 5 minutes at 25°C
- **Compatible:** Compatible with sticky ends, blunt ends, TA, linker or adapter ligation
- **Convenient:** Reaction mixture can be used directly for bacterial transformation



Mechanism



Workflow of 5min Universal Ligation Mix Experiment

Nucleic Acid Stain

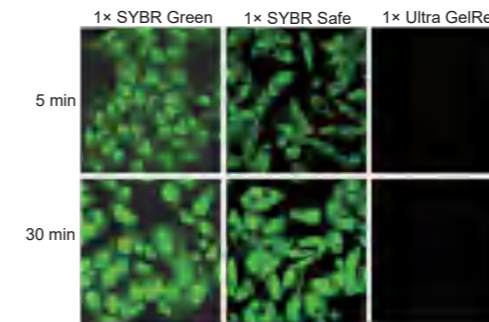
Ultra GelRed (10,000 ×) (#GR501)

Features

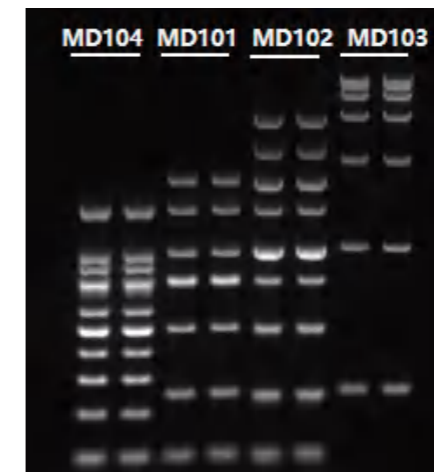
- **Safe and non-toxic:** Biomacromolecular nucleic acid Dyes; less hazardous than EB
- **Broad compatibility:** Suitable for dsDNA, ssDNA and RNA staining
- **Excellent sensitivity:** Electrophoretic bands are more clear and beautiful



Validation Data



Cell membrane permeability assay for SYBR Green, SYBR Safe and Ultra GelRed. As shown in the figure, Ultra GelRed cannot enter cells.



Under the conditions of 1% agarose gel, 180V voltage, and 30 min electrophoresis, the DNA Marker bands were separated clearly and beautifully.

DNA Marker/Ladder

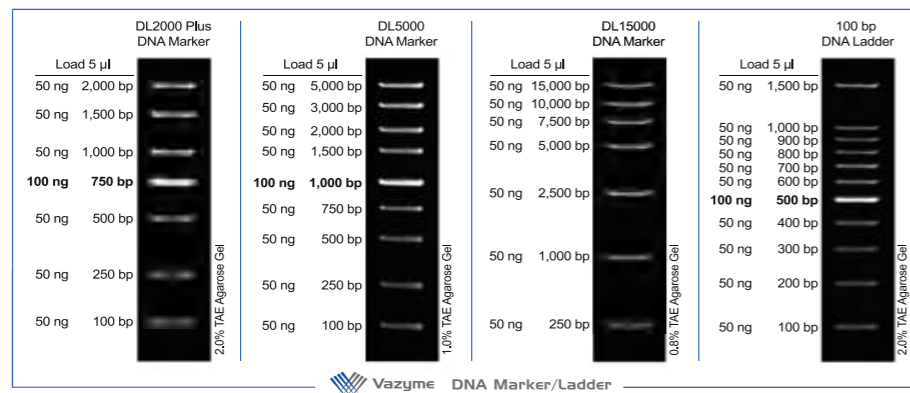
DL2000 Plus DNA Marker (#MD101) | DL5000 DNA Marker (#MD102)
DL15000 DNA Marker (#MD103) | 100 bp DNA Ladder (#MD104)

Features

- **Good stability:** No change in product performance at room temperature for 6 months
- **Reliable results:** Electrophoretic bands are Sharp and clear
- **Convenient:** Provided with Gel Loading Buffer for tracking of sample DNA migration
- **Precise:** Exact molecular weight of DNA in each band



Validation Data



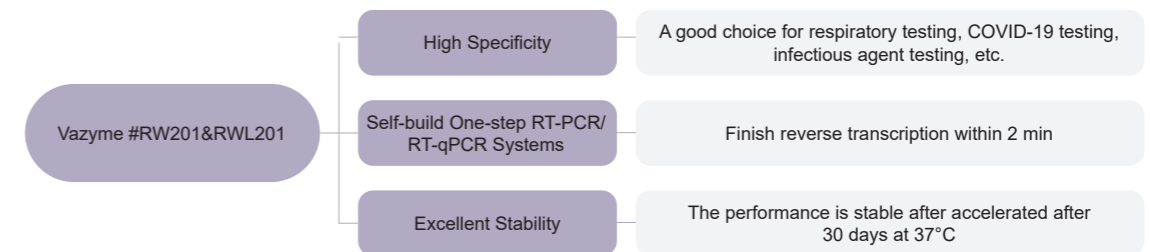
Vazyme DNA Marker/Ladder

Reverse Transcription

Reverse Transcription Kit Selection Guide

	HiScript IV 1st Strand cDNA Synthesis Kit (+gDNA wiper) #R412	HiScript IV RT SuperMix for qPCR (+gDNA wiper) #R423	HiScript IV All-in-One Ultra RT SuperMix for qPCR #R433
Features	Synthesize longer cDNA products	Specially designed for qPCR	gDNA elimination and reverse transcription can be simultaneously completed in one step
Suitable for	PCR qPCR	qPCR	qPCR PCR (≤ 5 kb)
Applications	Gene Expression RNA Quantification Plasmid Construction	Gene Expression RNA Quantification	Gene Expression RNA Quantification Plasmid Construction
Total input RNA Range	10 ng	1 pg - 1 µg	1 pg - 1 µg
gDNA Elimination	Optional	Optional	√
Time to Produce cDNA	5 min (PCR) 15 min (qPCR)	15 min	5 min

Reverse Transcriptase (molecular diagnosis)



Universal RT-PCR/RT-qPCR Mix

HiScript IV 1st Strand cDNA Synthesis Kit (+gDNA wiper) (#R412)

Features

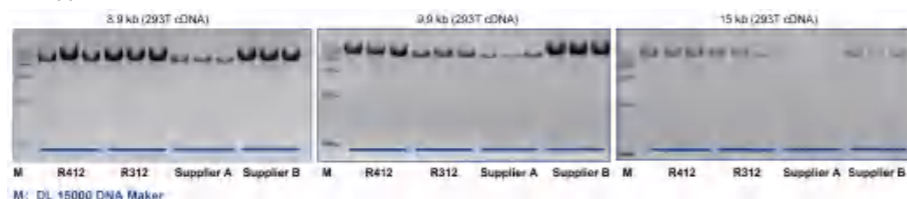
- **Extended Amplification Capacity:** Capable of generating cDNA fragments up to 15 kb in length.
- **Improved Reverse Transcription Efficiency:** Consistently produces lower C_T values, ensuring higher efficiency.
- **Accelerated Reaction Speed:** Completes reverse transcription in as little as 5 minutes with exceptional efficiency.



Validation Data

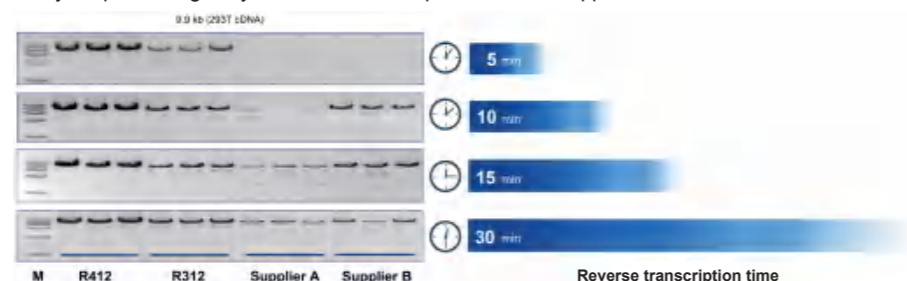
Extended Amplification Capacity

Using total RNA from 293T cells as a template, reverse transcription was performed under the same conditions with Vazyme #R412, Vazyme #R312, and other commercially available reverse transcription products (Supplier A and B). The resulting cDNA was amplified with different fragment lengths using the 2x Vazyme LAmp Master Mix (Dye Plus) (Vazyme #P312). As shown in the figure, all tested reverse transcriptases successfully synthesized a 9.9 kb cDNA fragment. However, for the 15 kb cDNA fragment, R412 produced a higher yield compared to R312 and significantly outperformed reverse transcription products from Supplier A and B.



Accelerated Reaction Speed

Using total RNA from 293T cells as a template, reverse transcription was conducted with Vazyme #R412, Vazyme #R312, and other commercially available reverse transcription products (Supplier A and B) following respective protocols, with varying reverse transcription times (5 min, 10 min, 15 min, and 30 min). The resulting cDNA was amplified for a 9.9 kb target fragment using Vazyme #P312. As shown in the figure, most reverse transcriptases could effectively produce a 9.9 kb cDNA band with a 30 min reverse transcription time. However, even with a 5 min reverse transcription time, R412 demonstrated superior efficiency, outperforming Vazyme #R312 and the products from Supplier A and B.



RT-qPCR SuperMix

HiScript IV RT SuperMix for qPCR (+gDNA wiper) (#R423)

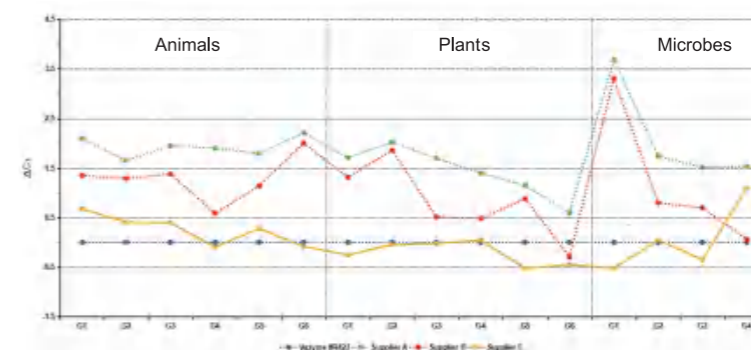
Features

- **Superior reverse transcription efficiency:** Achieve qPCR detection results with smaller C_T values.
- **Great gDNA elimination efficiency:** Thoroughly remove 500 ng of gDNA to ensure the accuracy of qPCR detection.
- **Excellent template compatibility:** Efficient reverse transcription of low-input, low-expression or degraded RNA templates.

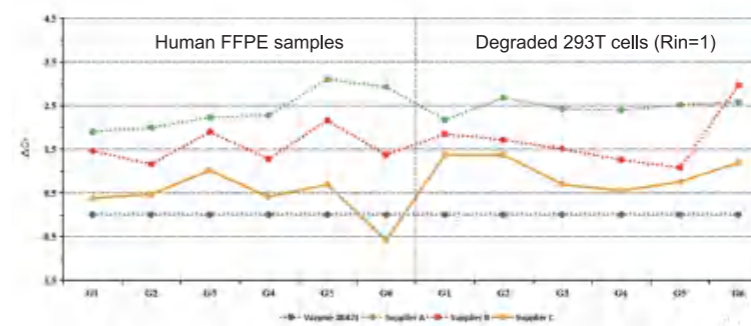


Validation Data

Reverse transcribe 100 ng RNA from animals, plants, microbes, human FFPE samples and degraded 293T cells ($R_{in}=1$) by Vazyme #R423 and similar mixes from Supplier A, Supplier B and Supplier C, following their respective manuals. Evaluate reverse transcription efficiency of these reagents by qPCR assay. It can be seen from the figure, C_T values between Vazyme #R423 and Supplier A/Supplier B/Supplier C are more than 0.0, indicating a better efficiency of Vazyme #R423.



Notes: $\Delta C_T = C_T(\text{Suppliers}) - C_T(\text{Vazyme \#R423})$



$\Delta C_T = C_T(\text{Suppliers}) - C_T(\text{Vazyme \#R423})$

RT-qPCR SuperMix

HiScript IV All-in-One Ultra RT SuperMix for qPCR (#R433)

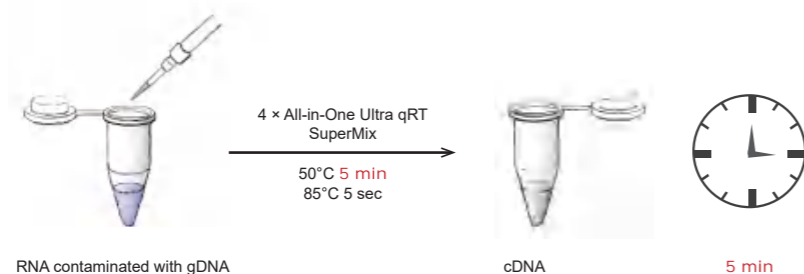
Features

- **Faster Resaction:** With an all-in-one reagent, completes genomic DNA removal and reverse transcription in just 5 minutes.
- **Higher Efficiency:** Produces higher yields of cDNA, leading to lower C_T values and enabling accurate analysis of low-expression targets.

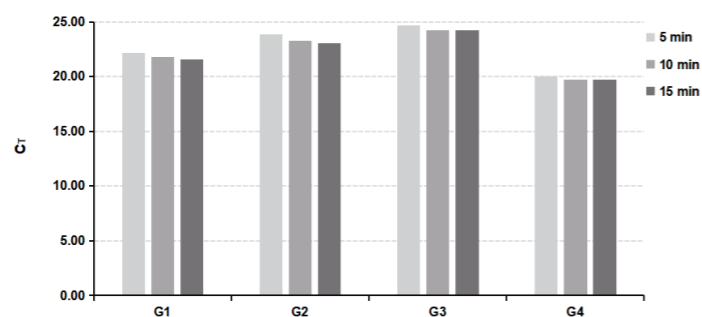


Validation Data

■ Faster Reaction



Reverse transcribe 100 ng total RNA from 293T cells by Vazyme #R433 at different reverse transcription times (5 min, 10 min, 15 min). Then, quantify multiple genes in the resulting cDNA by Vazyme #Q712. As shown in the figure, both the 5-minute rapid reverse transcription and the conventional 15-minute reverse transcription show excellent reverse transcription efficiency with Vazyme #R433.



Accurate Reverse Transcriptase

AccurSTART Reverse Transcriptase (#RW201)

Features

- **Excellent high and low template uniformity**
- **Suitable for self-build fast one-step systems**
- **Strong stability**

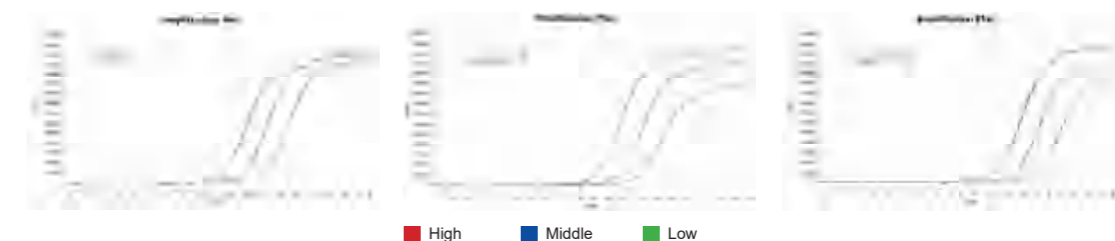


*Provide lyophilizable version: Vazyme #RWL201
AccurSTART Reverse Transcriptase (Glycerol-free)

Validation Data

■ Excellent High-/Low-Template Uniformity

The unique hot start technology of AccurSTART Reverse Transcriptase (Vazyme #RW201) prevents the reverse transcription of non-specific targets at low temperatures (system preparation, PCR warming) to a large extent. As a result, the target cDNA can be synthesized efficiently even with low-copy-number templates, and the amplification plateau of the subsequent qPCR assay is the same as that of high-copy-number templates.



■ Strong Stability

Store RT-qPCR mix made with Vazyme #RW201 at 4°C for 4 weeks, 37°C for 30 days, and repeatedly froze and thaw 50 times, then evaluate its performance with respiratory genes. The results show that the ΔC_T (Test-Control) are within ± 0.5 , demonstrating the excellent stability of Vazyme #RW201.

	System 1		System 2	
	C_T Mean	ΔC_T (Test-Control)	C_T Mean	ΔC_T (Test-Control)
Control (-20°C)	24.81	0	30.1	0
50 freeze-thaw cycles	24.6	-0.21	29.94	-0.16
4°C 4 weeks	24.67	-0.14	39.96	-0.14
37°C 30 days	24.51	-0.3	29.97	-0.13

Real-Time PCR (qPCR)

Selection Guide

Dye-Based qPCR

Product Series	AceQ (Q511)	ChamQ (Q3X1, Q4X1, Q711)	Taq Pro (Q712)
Characteristics			
Samples	DNA from all kinds of species (gDNA, cDNA, Plasmid DNA, λ DNA)		
Features	Specific	Sensitive	Specific, Sensitive, High-yield
Polymerase Modification Method	Chemistry Modification	Antibody Modification	Antibody Modification
Hot start	Yes		
Support Fast Program	No	Yes	Yes
Applications			
Gene expression analysis			

Probe-Based qPCR

Product Series	AceQ (Q513)	ChamQ (Q811)	BioSmart (QN222)
Characteristics			
Samples	DNA from all kinds of species (gDNA, cDNA, Plasmid DNA, λ DNA)		
Features	Specific	Sensitive	Sensitive Supports primers and probes full pre-mixing Strong multiplex detection
Polymerase Modification Method	Chemistry Modification	Antibody Modification	Antibody Modification
Hot start	Yes		
Support Fast Program	No	Yes	Ultra-fast
Applications			
Gene expression analysis; Molecular diagnosis			

Dye-Based qPCR

Taq Pro Universal SYBR qPCR Master Mix (#Q712)

Features

- **Stable detection of low expression system:** The use of Taq Pro DNA Polymerase, a new generation of hot start polymerase, with Buffer optimised for qPCR and specificity-enhancing factor, makes it more suitable for the detection of low expression systems.
- **Universal Specific ROX Reference Dye:** Applicable for all qPCR instruments.

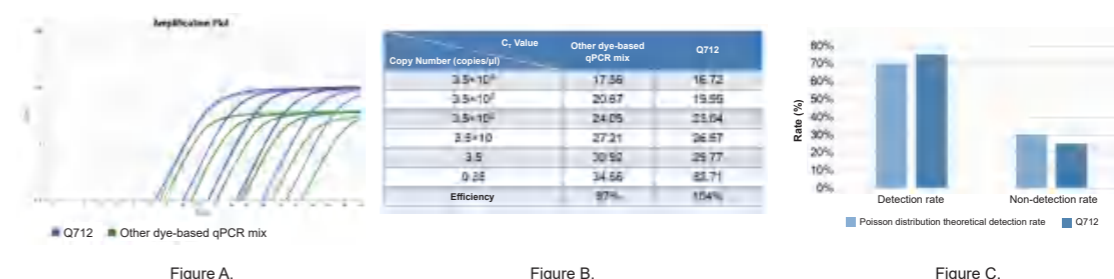


Validation Data

Stable detection of low expression genes

A 10-fold serial dilution of the Mycoplasma plasmid template was carried out across six gradients (Figure A). Vazyme #Q712 exhibited outstanding amplification efficiency and linear correlation, detecting as few as 1.75 copies (diluted to 0.35 copies/μl, using 5 μl of input). When compared to our previous product (Figure B), Vazyme #Q712 displayed lower C_T values at the lowest detection limit, showcasing its superior sensitivity.

For single-copy target amplification, the detection rate is expected to follow Poisson distribution. Based on Poisson's theoretical model, the detection rate for one or more copies is approximately 65%. In Figure C, Vazyme #Q712 was tested using 1.75 copies of the Mycoplasma plasmid, achieving a detection rate of 75%, which is consistent with Poisson distribution predictions.



Full Premixing qPCR/RT-qPCR

Working Solution

? What is the full premixing qPCR/RT-qPCR working solution?

A Full premixing solution= primers + probes + qPCR mix, premixing in advance

? What's so special about such a full premixing solution?

A As you know, in qPCR reaction system, qPCR mix, primer, probe and template are usually prepared and then immediately subjected to thermal cycling reaction. If the primer, probe and qPCR mix are premixed together for a long time, it may cause the primer and probe to overlap or self-link. In that case, the amplification cannot be performed properly after adding template. **Full premixing solution allows the premixing of primer, probe and qPCR mix into one tube in advance, which requires the development of qPCR mix that can provide a stable environment for primers and probes.**

? What are the benefits of full premixing solution?

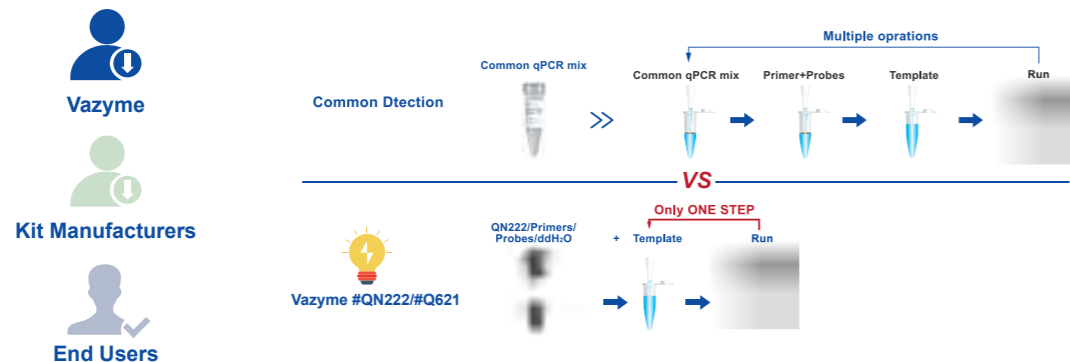
A For kit manufacturers:

- ① It can reduce the cost, because originally primer, probe and mix need to be packed in separate tubes, but now they can be combined into one tube.
- ② The production process of the test kit has been simplified, which can improve the production efficiency.

For end users:

- ① It is simple and convenient: fewer steps to perform.
- ② The experiment results are reliable: fewer manual operations, which improves the reproducibility of the results.

Molecular Diagnosis Supply Chain



Probe-Based qPCR

BioSmart U* All-Powerful Multiple Probe qPCR PreMix (ONE TUBE) (Vazyme #QN222)

Features

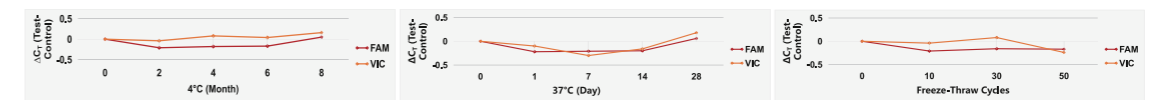
- **Supports full premixing of primers and probes:** Stable primers & probes premix brings reproducible results and convenience.
- **Supports ultra-fast reaction programs:** Finish the detection in 30 minutes.
- **Superior performance in multiplex systems**



Validation Data

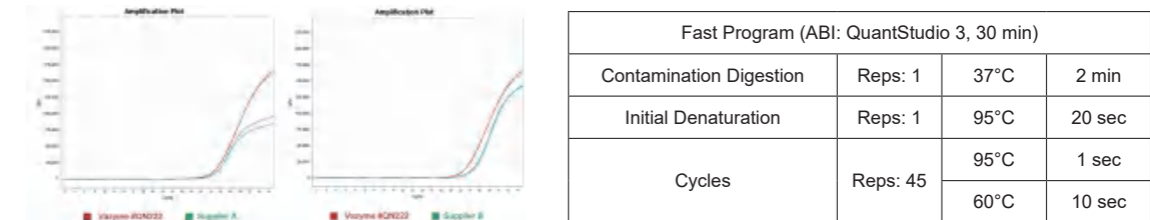
Stable full-premixing system

The mix+probes+primers full-premixing system can remain great performance after acceleration at 4°C for 8 months, 37°C for 28 days and 50 freeze-thaw cycles.



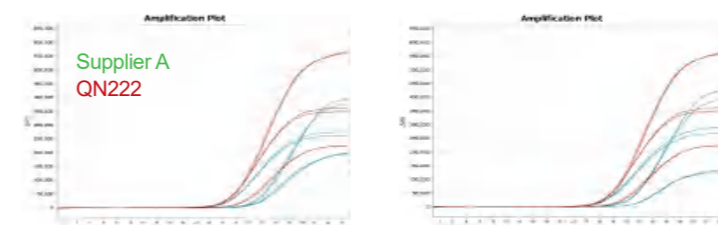
Supports ultra-fast reaction programs

Compare the performance difference between Vazyme #QN222 and Supplier A and Supplier B under fast program. The results show that Vazyme #QN222 has good amplification efficiency under fast program and can meet the needs of rapid detection.



Superior performance in multiplex systems

Compare the performance of Vazyme #QN222 and Supplier A. The results show that Vazyme #QN222 has better amplification lineage, and higher sensitivity in 3-multiplex PCR system.



One-Step RT-qPCR Mix

Selection Guide

Product Name	Cat. No.	High Lights
HiScript II One Step qRT-PCR SYBR Green Kit	Q221-01	Dye-based RT-qPCR
UniPeak U ⁺ One Step RT-qPCR SYBR Green Kit	Q226-01	Dye-based RT-qPCR
HiScript II U ⁺ One Step qRT-PCR Probe Kit	Q223-01	Multiplex detection
HiScript III U ⁺ One Step qRT-PCR Probe Kit	Q225-01/02/03	High success rate; High sensitivity and specificity.
AccurSTART U ⁺ One Step RT-qPCR Probe Kit (FOR FAST)	Q231-01/02/03	Fast detection; High sensitivity and specificity.
HiScript III U ⁺ One Step qRT-PCR Probe 5 × Master Mix	Q611-01/02/03	One-tube probe-based RT-qPCR
AccurSTART U ⁺ One Step RT-qPCR Super PreMix (ONE TUBE)	Q621-01/02/03	One-tube probe-based RT-qPCR; Primer and probe can be premixed in advance.
AccurSTART U ⁺ One Step RT-qPCR Probe Kit (Glycerol-free)	QL227-01/02/03	Glycerol-free RT-qPCR
GO-Lyo U ⁺ One Step RT-qPCR Probe Kit	QL229-01/02/03	Applicable for lyophilization technology; Provide excipient to stabilize lyophilized products.

One-Step RT-qPCR Mix

One-Step RT-qPCR Mix

Probe-based RT-qPCR Master Mix

HiScript III U⁺ One Step qRT-PCR Probe Kit (#Q225)

Features

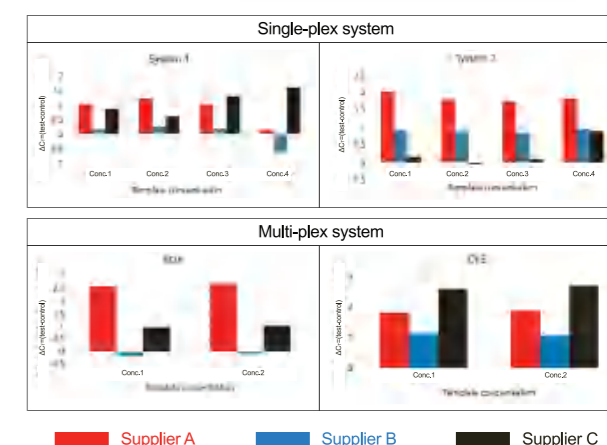
- Compatible for complex samples and reaction systems
- Applicable to 4-5 multiplex qPCR
- Better storage stability



Validation Data

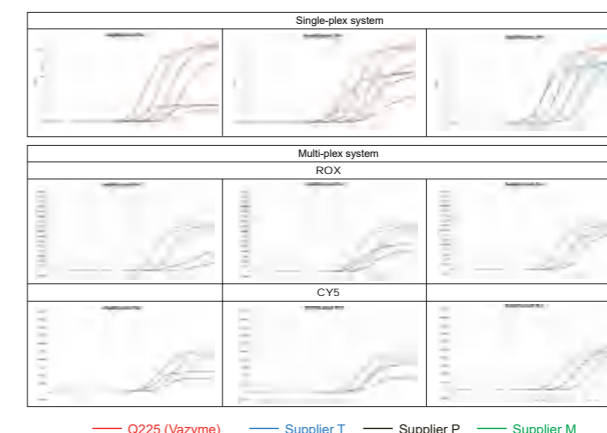
High Sensitivity

Take Vazyme #Q225 as the control group and other brands' RT-qPCR reagents as the test group, detect and amplify the viral RNA under the same reaction conditions, and calculate the ΔC_T . The results show that the overall amplification sensitivity of Q225 is better than that of the test reagents in both single-plex and multi-plex systems.



Great Multiplex Detection Performance

Perform qPCR amplification by Vazyme #Q225 and other brands' qRT-PCR reagents. The results show that Q225 performs better than other brands in amplification sensitivity and plateau phase in both single-plex and multi-plex systems.



Probe-based RT-qPCR Master Mix

AccurSTART U⁺ One Step RT-qPCR Probe Kit (FOR FAST) (#Q231)

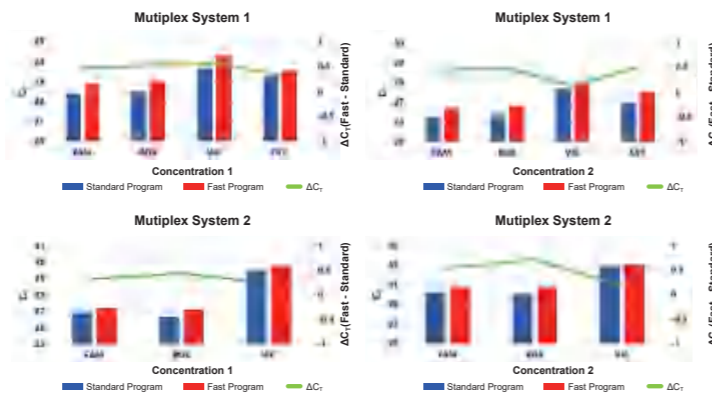
Features

- **Fast amplification:** Finish the detection in 30 minutes
- **Broad compatibility and strong anti-contamination ability**
- **Sensitive and efficient**
- **DNA/RNA co-detection**



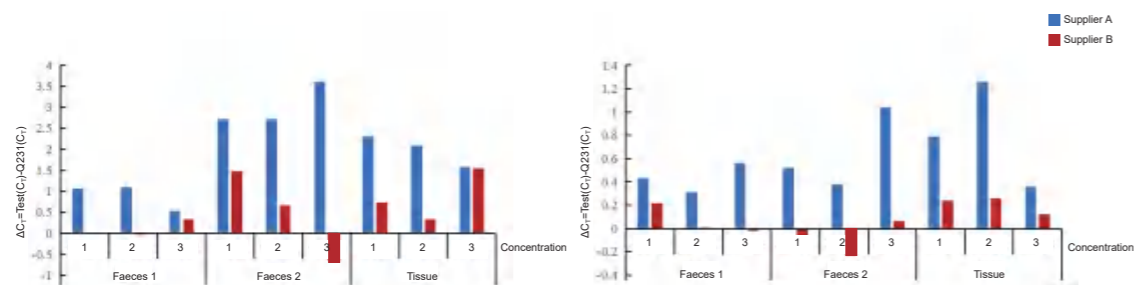
Fast Amplification (30 min)

AccurSTART U⁺ One Step RT-qPCR Probe Kit (FOR FAST) (Vazyme #Q231) has been optimized to tolerate faster ramp-ups and ramp-downs to achieve amplification in 30 min. The results show that Q231 has a C_T value difference between ±1 and a plateau phase difference within 10% between the fast and standard program at ABI Q3.



Broad Template Compatibility

Amplify genes from faeces and pig tissues by AccurSTART U⁺ One Step RT-qPCR Probe Kit (FOR FAST) (Vazyme #Q231) and RT-qPCR reagents from other brands. Calculate differences in C_T values between control and test groups. The results show that the sensitivity of Q231 in different types of samples is better than Supplier A and Supplier B.



Probe-based RT-qPCR Master Mix

AccurSTART U⁺ One Step RT-qPCR Super PreMix (ONE TUBE) (Vazyme #Q621)

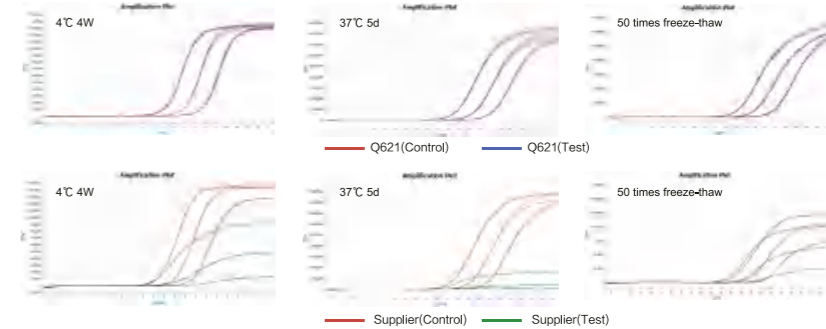
Features

- **Supports full premixing of primers and probes:** Stable primers & probes premix brings reproducible results and convenience
- **DNA/RNA co-detection:** Stable and sensitive amplification of DNA and RNA templates
- **Multiplex amplification:** Compatible with 4 - 5 multiplex amplification



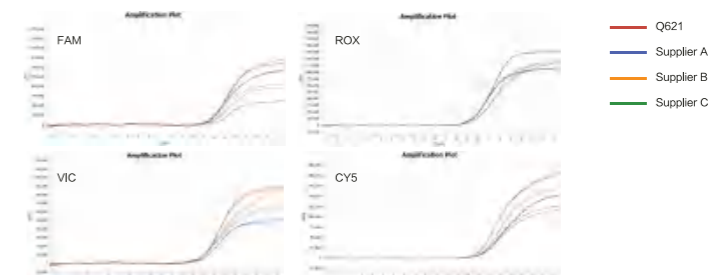
Support Premix of Probes and Primers

Mix primers, probes in AccurSTART U⁺ One Step RT-qPCR Super PreMix (ONE TUBE) (Vazyme #Q621) and a similar reagent from another supplier in advance. Test the prepared full premixing working solutions by accelerating at 4°C for 2 weeks, 37°C for 5 days and repeated freeze-thawing for 50 times. Set the freshly prepared working solutions as control groups, then evaluate the performance of these solutions by qPCR assays. The results show that the Vazyme #Q621 premixed with probes and primers can be stored for a long time with stable performance. Efficient amplification can be achieved by simply adding a template.



Excellent Multiplex Amplification Performance

Amplify four genes from 293 cells by AccurSTART U⁺ One Step RT-qPCR Super PreMix (ONE TUBE) (Vazyme #Q621) and similar reagents from other brands (Supplier A, Supplier B and Supplier C). The results show that Vazyme #Q621 has better sensitivity and higher plateau phase in each channel, indicating its excellent performance in quadruple detection.



Cell Series Products

III Selection Guide

Application	Product Name	Cat. No.
Mycoplasma Detection and Elimination	Mycolor One-Step Mycoplasma Detector	D201
	Myco-Off Mycoplasma Cleaner	D103
Cell Transfection	Lipomaster 2000 Transfection Reagent	TL201
	Lipomaster 3000 Transfection Reagent	TL301
Cell Sorting	Mouse CD3 ⁺ T Cell Isolation Kit	CS101
	Mouse CD4 ⁺ T Cell Isolation Kit	CS102
	Mouse CD8 ⁺ T Cell Isolation Kit	CS103
	EasyIso Magnet	CS001
Dual Luciferase Reporter Assay	Dual Luciferase Reporter Assay Kit	DL101
Cell Apoptosis Detection	TUNEL BrightGreen Apoptosis Detection Kit	A112
	TUNEL BrightRed Apoptosis Detection Kit	A113
	Annexin V-FITC/PI Apoptosis Detection Kit	A211
	Annexin V-PE/7-AAD Apoptosis Detection Kit	A213
Cell Proliferation Assay	CCK-8 Cell Counting Kit	A311

03
 Product Introduction
Cell and Protein Research Reagents

Mycoplasma Detection and Elimination

Mycolor One-Step Mycoplasma Detector (#D201)

Features

- **Fast:** Incubate at 65°C for only 1 h to observe the results
- **Simple:** Direct detection without pretreatment
- **Compatible:** Cover most cell cultures common mycoplasma
- **Precise:** Accuracy comparable to qPCR

Validation Data

Comparison of results from 14 randomly selected cell cultures to detect Mycoplasma by two methods.

Sample	NC	PC	1#	2#	3#	4#	5#	6#
qPCR Results [Positive: C; Value; Negative: "-"]	-	8.83	-	-	23.49	-	25.87	24.25

Sample

qPCR Results [Positive: C; Value; Negative: "-"]

D201 Results

Sample	7#	8#	9#	10#	11#	12#	13#	14#
qPCR Results [Positive: C; Value; Negative: "-"]	-	-	22.30	-	24.70	23.86	-	27.63

Sample

qPCR Results [Positive: C; Value; Negative: "-"]

D201 Results

Mycro-Off Mycoplasma Cleaner (#D103)

Features

- **Efficient:** Directly kills mycoplasma rather than inhibiting its growth
- **Fast:** It only takes 3-7 days to get good mycoplasma elimination results
- **Minimal toxic effects:** Low cytotoxicity, suitable for a variety of common cell lines and primary cells

Cell Transfection

Lipomaster 3000 Transfection Reagent (#TL301)

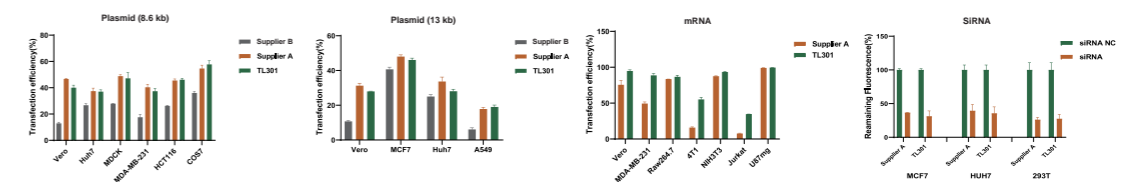
Features

- **High transfection efficiency:** Achieve efficient transfection of plasmid DNA, mRNA, and siRNA
- **Broad cell compatibility:** Ensure high transfection efficiency for challenging cell types
- **Low cytotoxicity:** No need to change medium after transfection

Validation Data

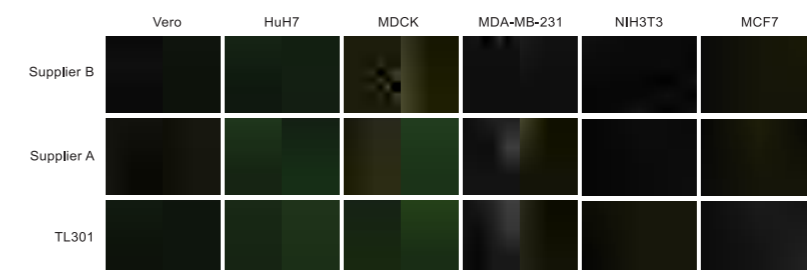
High transfection efficiency

Using Vazyme #TL301 and Supplier A transfection reagent to transfect the single plasmid, mRNA and siRNA respectively. The results show that the transfection efficiency of Vazyme #TL301 in various cells is consistent with that of Supplier A.



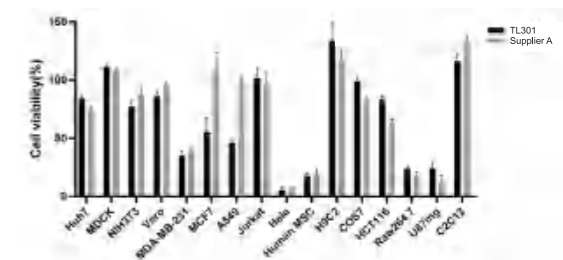
Broad cell compatibility

Using Vazyme #TL301 to transfect a single plasmid into a variety of adherent/suspension cells can achieve efficient transfection.



Low cytotoxicity

Testing the cytotoxicity of Vazyme #TL301 and Supplier A transfection reagent in adherent/suspension cells. The results show that the cytotoxicity of Vazyme #TL301 in various cells is consistent with that of Supplier A.



Protein Research

Selection Guidance

IP/CoIP

Product Name	Size	Cat. No.
Protein A/G Magnetic Beads	1 ml/5 × 1 ml	PB101-01/02
Anti-rabbit IgG for IP (HRP)	100 µl	RA1008-01
Anti-mouse IgG for IP (HRP)	100 µl	RA1009-01
Protein A/G Magnetic IP/Co-IP Kit	20 rxns/100 rxns	PB201-01/02

Western Blot

Product Name	Size	Cat. No.
BCA Protein Quantification Kit	250 rxns/500 rxns	E112-01/02
FlashSTART PAGE Gel, Bis-Tris, 4-12%, 12 wells	10/BOX	E601-01
FlashSTART PAGE Gel, Bis-Tris, 4-12%, 15 wells	10/BOX	E602-01
FlashSTART PAGE Gel, Bis-Tris, 4-20%, 12 wells	10/BOX	E603-01
FlashSTART PAGE Gel, Bis-Tris, 4-20%, 15 wells	10/BOX	E604-01
180 kDa Plus Prestained Protein Marker	100 rxns/500 rxns	MP201-01/02
250 kDa Plus Prestained Protein Marker	100 rxns/500 rxns	MP202-01/02
PVDF Membrane (0.45 µm)	27.5 cm × 3.75 m/90 mm × 60 mm, 50 sheets	E801-01/02
PVDF Membrane (0.22 µm)	27.5 cm × 3.75 m/90 mm × 60 mm, 50 sheets	E802-01/02
SuperPico ECL Chemiluminescence Kit	100 ml/500 ml	E422-01/02
SuperFemto ECL Chemiluminescence Kit	100 ml/500 ml	E423-01/02

Western Blot

SuperFemto ECL Chemiluminescence Kit (#E423)

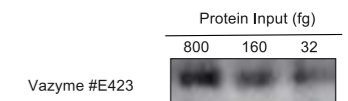
Features

- **High sensitivity:** The detection threshold of protein amount reaches 32 fg
- **Strong anti-overexposure ability:** The overexposure time of the high-µg protein reaches 2 min
- **Short automatic exposure time:** Hundreds of milliseconds
- **Excellent long-lasting fluorescence ability:** Intact bands can be observed after 4 h

Validation Data

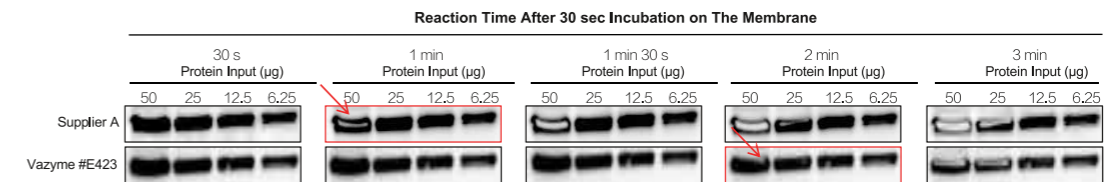
High sensitivity

Detectable the femto-level protein. The detection threshold of protein amount reaches 32 fg.



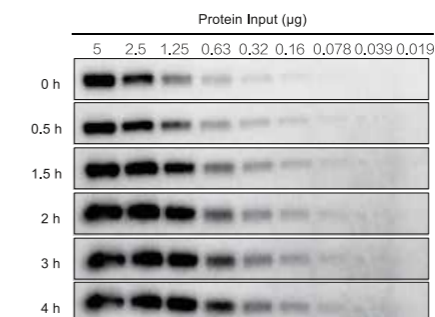
Strong anti-overexposure ability

According to the images of protein samples with different concentration gradients, the overexposure time of Vazyme #E423 is later than that of similar products (Supplier A), and the overexposure degree is lower.



Excellent long-lasting fluorescence ability

0.019 - 5 µg proteins from 293T cells was quantified by Vazyme #E423. Under automatic exposure conditions, images were taken every 0.5 h from 0 h to 4 h. After 4 h, intact bands can be observed, indicating excellent long-lasting fluorescence ability of Vazyme #E423.



DNA Library Preparation Kit

Selection Guide

Nanopore	Features		Products	Cat. No.
Illumina	Genomics DNA	Transposome Fragmentation	TruePrep DNA Library Prep Kit V2 for Illumina	TD501/TD502/ TD503
			TruePrep Flexible DNA Library Prep Kit for Illumina	TD504
		Mechanical Fragmentation	VAHTS Universal DNA Library Prep Kit for Illumina V4	ND610-01/02
			VAHTS Universal DNA Library Prep Kit for Illumina V4 (without PCR module)	ND610-03/04
		Enzymatic Fragmentation	VAHTS Universal Plus DNA Library Prep Kit for Illumina V2	ND627
			UltraClean Universal Plus DNA Library Prep Kit for Illumina V3	UND637
	ssDNA	VAHTS ssDNA Library Prep Kit for Illumina	ND620	
	cfDNA/16s/ITS-seq	VAHTS Universal DNA Library Prep Kit for Illumina V4	ND610	
	ATAC-seq Module	TruePrep DNA Library Prep Kit V2 for Illumina	TD501/TD502/ TD503	
	Amplicon-seq	VAHTS AmpSeq Library Prep Kit V3	NA210	
Ion Torrent	Amplicon-seq	VAHTS AmpSeq Library Prep Kit V3	NA210	
MGI	Genomics DNA	Transposome Fragmentation	TruePrep DNA Library Prep Kit for MGI	TDM501/TDM502/ TDM503
			TruePrep Flexible DNA Library Prep Kit for MGI	TDM504
		Mechanical Fragmentation	VAHTS Universal DNA Library Prep Kit for MGI V3	NDM607
			Enzymatic Fragmentation	VAHTS Universal Plus DNA Library Prep Kit for MGI V2
	UltraClean Universal Plus DNA Library Prep Kit for MGI V3	UNDM637		
	cfDNA/CHip-seq/16s/ITS-seq	VAHTS Universal DNA Library Prep Kit for MGI V3	NDM607	
	DNA Library Preparation Module	VAHTS Circularization Kit For MGI	NM201	
Nanopore	Third-Generation Sequencing	VAHTS TGS DNA Library Prep Kit for ONT	TS201	

04
Product Introduction
Next-Generation Sequencing
Library Preparation

DNA Library Preparation Kit

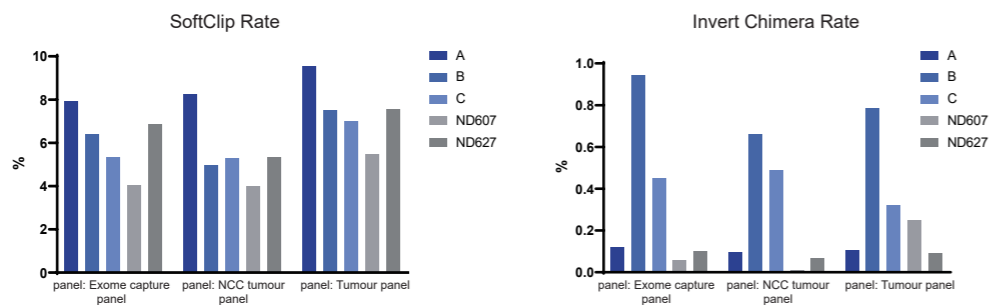
VAHTS Universal Plus DNA Library Prep Kit for Illumina V2 (#ND627) (Apply to Illumina Platform)

- ### Features
- **Reduce “false positives”:** Greatly reduce the false positives detected by SNP and InDel, and improve the accuracy rate of mutation detection.
 - **Higher library yields:** Excellent performance in library yields and conversion rate.

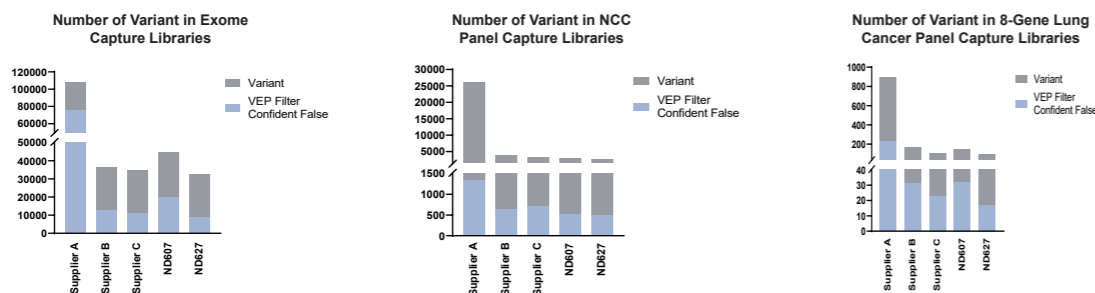
Validation Data

■ Low detection rate of false positives

Using standard DNA samples for library preparation, Vazyme #ND627 has same performance in SoftClip detection compared with Supplier C, and has lower Invert Chimera detection as compared to other commercially available kits.



Using the standard DNA samples for library preparation, Vazyme #ND627 significantly reduces detection of false-positive variant without affecting true variant detection.



DNA Library Preparation Kit

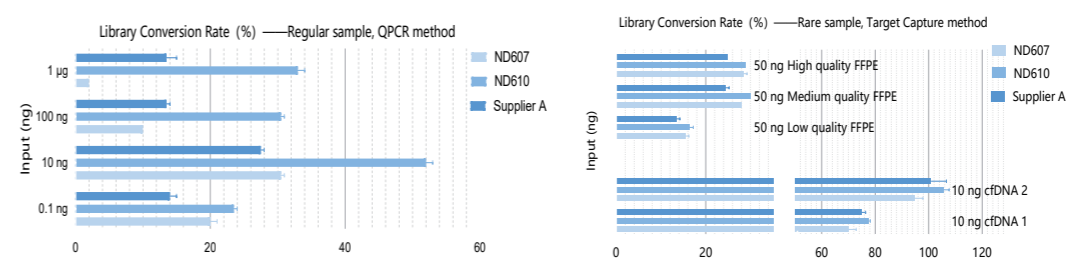
VAHTS Universal DNA Library Prep Kit for Illumina V4 (#ND610) (Apply to Illumina Platform)

- ### Features
- **Extensive sample compatibility:** Compatible with poor-quality FFPE samples, cfDNA samples, etc.
 - **High efficiency in library preparation:** Higher library conversion rate.
 - **Accurate Detection:** Accurate detection of low-frequency mutations.

Validation Data

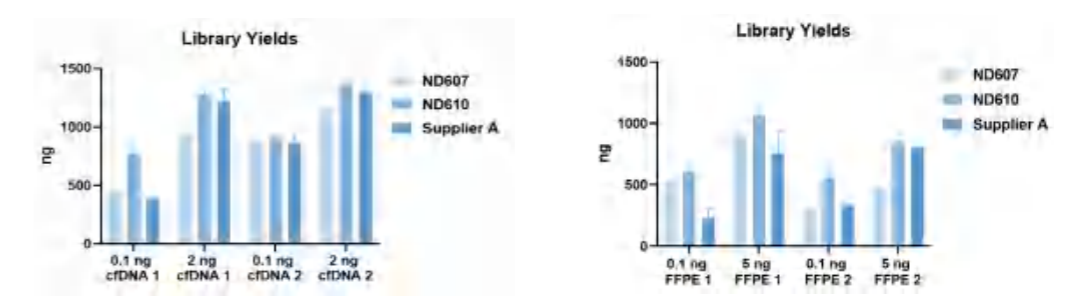
■ Higher conversion rate

Libraries were prepared with 0.1 ng, 10 ng, 100 ng and 1 µg regular samples and 50 ng FFPE samples of different quality. Vazyme #ND610 enables substantially higher rates of conversion as compared to other commercially available kits under the same conditions.



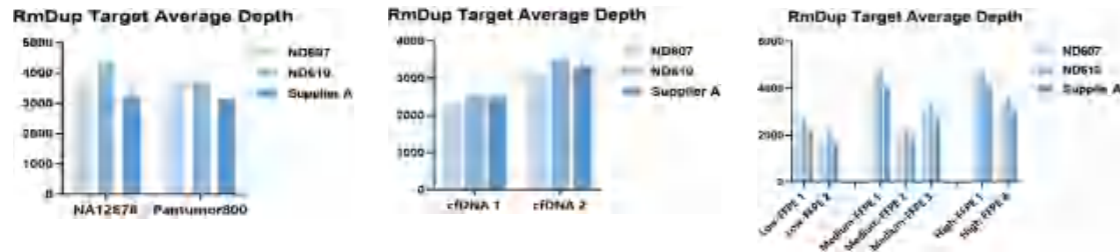
■ Compatible with poor-quality FFPE and cfDNA samples

Libraries were prepared from different input clinical FFPE and cfDNA. Significantly higher yields are achieved with Vazyme #ND610 than with the Supplier A.



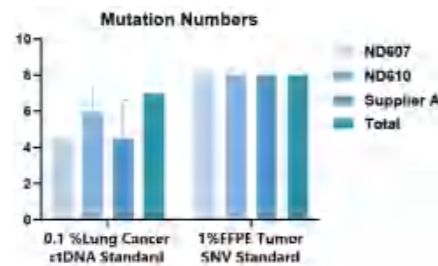
Higher effective sequencing depth

Libraries were prepared from clinical cfDNA and FFPE samples with different degrees of degradation. Vazyme#ND610 has higher effective sequencing depth than Supplier A.



More accurate detection of low-frequency mutations

Using 1% FFPE tumour SNV standard as sample for library preparation, Vazyme #ND610 and Supplier A have same performance in detection of low-frequency mutations. Using 0.1% Lung cancer ctDNA standard as sample for library preparation, Vazyme #ND610 achieves more accurate low-frequency mutation detection than Supplier A.



DNA Library Preparation Kit

VAHTS ssDNA Library Prep Kit for Illumina (#ND620) (Apply to Illumina Platform)

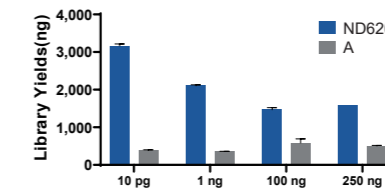
Features

- **Fast:** Single sample library preparation requires only 2 h.
- **Compatibility:** The libraries can be prepared with single-stranded and double-stranded mixed DNA and 40 bp DNA.
- **Higher quality:** The libraries all have excellent sequencing data quality with different sample inputs (10 pg - 250 ng).

Validation Data

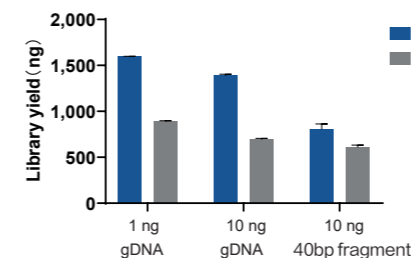
Sample input as low as 10 pg

Libraries were prepared from mouse genomic DNA using the input as follows. Vazyme #ND620 achieves sufficient yields compared with Supplier A.

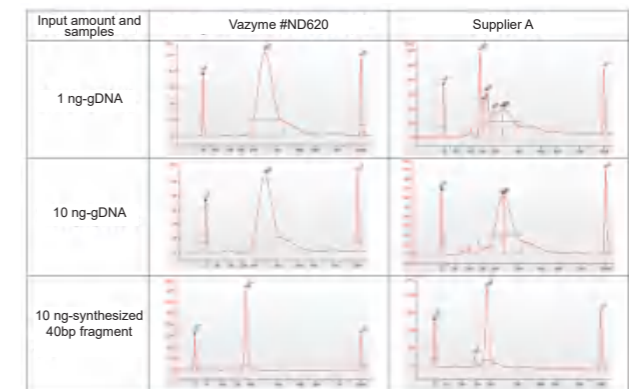


Compatible with DNA samples as short as 40 bp

Libraries were prepared from mouse genomic DNA and synthesized 40 bp fragment using the input as follows. Vazyme #ND620 has good performance in library yield and size distribution than Supplier A.



Library yield from short fragments



DNA Library Preparation Kit

VAHTS AmpSeq Library Prep Kit V3 (#NA210) (Apply to Illumina/Ion Torrent Platform)

- ### Features
- **High library yield:** Produce high yield libraries from a broad range of input (1 - 100 ng).
 - **High quality sequencing data:** High coverage range and uniformity.
 - **Extensive samples compatibility:** gDNA, FFPE DNA, cfDNA, etc.
 - **Apply to Illumina & Ion torrent platform.**

Validation Data

High library yield

Libraries were prepared from 1 ng, 10 ng and 100 ng of 293T cell gDNA. Vazyme #NA210 has higher yield than Supplier A.

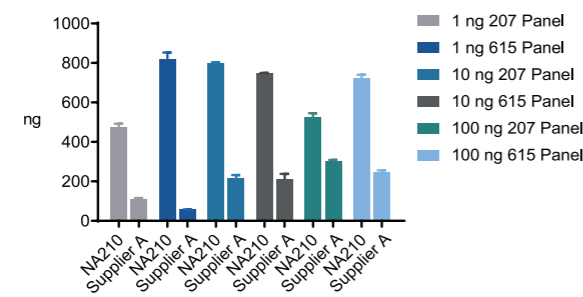


Fig 1. Library yields from different input

High quality sequencing data

Libraries were prepared from 293T cell gDNA using the input and panel shown. The results show that Vazyme #NA210 has higher coverage range than Supplier A.

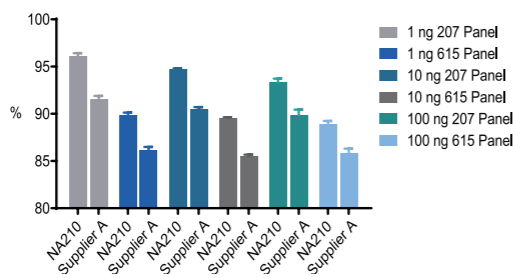


Fig 2. Libraries sequencing coverage with different inputs and panels

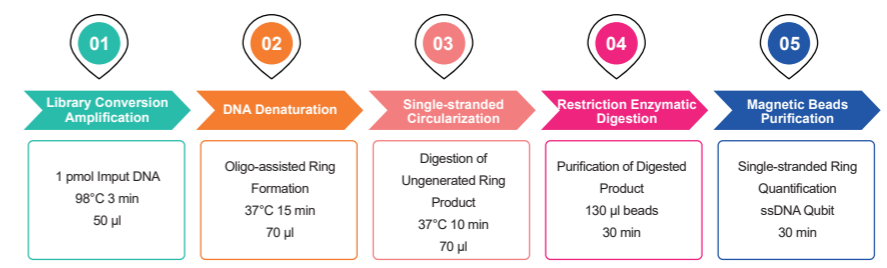
DNA Library Preparation Module

VAHTS Circularization Kit For MGI (#NM201)

- ### Features
- **Fast:** Circularization in only 70 minutes.
 - **Efficiency:** Circularization efficiency up to 60%.
 - **Extensive compatibility:** Compatible with different library preparation methods, inputs and sample types.

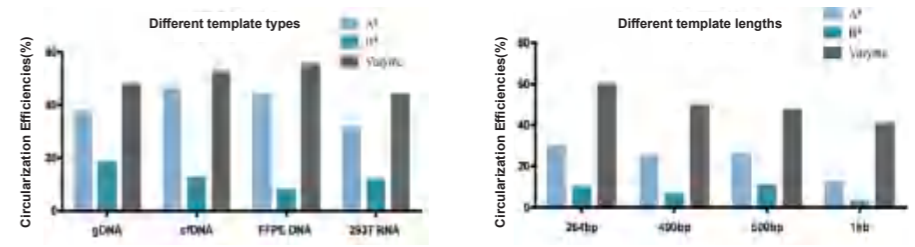
Validation Data

Fast



High circularization efficiency & Extensive compatibility

The results show that Vazyme #NM201 has better performance in circularization efficiency and sample compatibility than the Supplier A and Supplier B.



DNA Library Preparation

DNA Library Preparation

RNA Library Preparation Kit

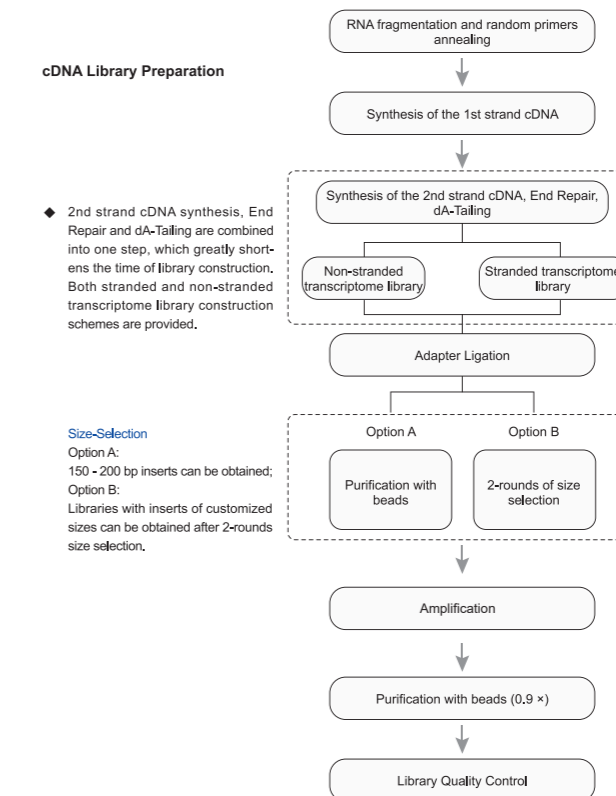
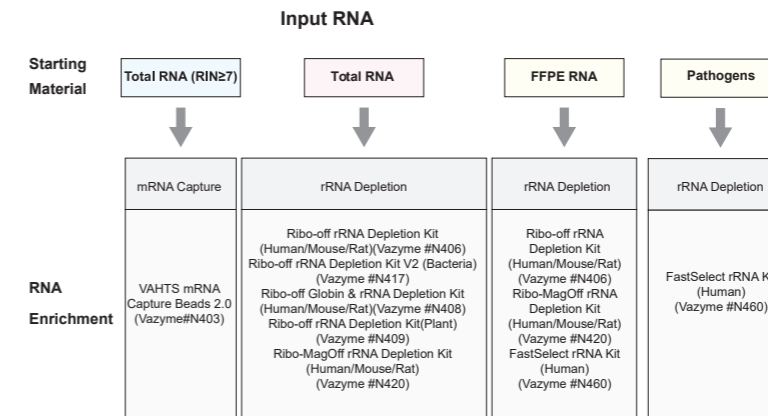
Selection Guide

Platform	Features	Products	Cat. No.	
Illumina	Fast RNA library preparation	Kit	VAHTS Universal V8 RNA-seq Library Prep Kit for Illumina	NR605
		Adapter	VAHTS RNA Adapters Set 3 - Set 6 for Illumina	N809-N812
			VAHTS RNA Multiplex Oligos Set 1 - Set 2 for Illumina	N323/N324
		Kit	VAHTS Universal V10 RNA-seq Library Prep Kit for Illumina	NR606
		Adapter	VAHTS DNA Adapters Set 3 - Set 6 for Illumina	N805-N808
			VAHTS Maxi Unique Dual Index DNA Adapters Set 1 - Set 4 for Illumina	N34201-N34204
			VAHTS Multiplex Oligos Set 4 - Set 5 for Illumina	N321/N322
			VAHTS Dual UMI UDI Adapters Set1 - Set4 for Illumina	N351-N354
		Module	VAHTS mRNA Capture Beads 2.0	N403
			Ribo-off rRNA Depletion Kit (Human/Mouse/Rat)	N406
			Ribo-off rRNA Depletion Kit (Plant)	N409
			Ribo-off rRNA Depletion Kit V2 (Bacteria)	N417
			Ribo-off Globin & rRNA Depletion Kit (Human/Mouse/Rat)	N408
			Ribo-MagOff rRNA Depletion Kit (Human/Mouse/Rat)	N420
Small RNA	Kit	VAHTS Small RNA Library Prep Kit for Illumina V2	NR811	
	Adapter	VAHTS Small RNA Index Primer Kit for Illumina	N813-N816	
MGI	Fast RNA library preparation	Kit	VAHTS Universal V8 RNA-seq Library Prep Kit for MGI	NRM605
		Adapter	VAHTS RNA Adapters Set 8 for MGI	NM208
		Kit	VAHTS Universal V10 RNA-seq Library Prep Kit for MGI	NRM606
		Adapter	VAHTS DNA Adapters Set 8 for MGI	NM108
		Adapter	VAHTS Dual UMI UDB Adapters Set 1 - Set 8 for MGI	NM35101-NM35108
Illumina/ MGI	ds-cDNA synthesis module	UltraClean ds-cDNA Synthesis Module (+gDNA wiper)	UNR201	

Fast RNA Library Preparation

Protocol

VAHTS Universal V10 RNA-seq Library Prep Kit for Illumina (Vazyme #NR606) is a newly upgraded RNA library preparation kit developed for the Illumina platform. The kit integrates 2nd Strand cDNA synthesis, end repair, and dA-Tailing into one step with no need for purification, which greatly simplifies the process of library construction and shortens the operation time.



RNA Library Preparation

RNA Library Preparation

RNA Library Preparation Kit

VAHTS Universal V10 RNA-seq Library Prep Kit for Illumina (#NR606) (Apply to Illumina Platform)

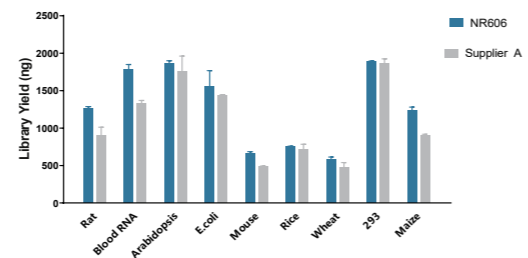
Features

- **Fast:** Save time with streamlined workflows, prepare libraries for illumina sequencing less than 5h.
- **Extensive compatibility:** High library yield while compatible with multiple species.
- **High quality sequencing data:** Excellent sequencing data quality results in superior strand specificity and higher mRNA ratio of the transcript regions.

Validation Data

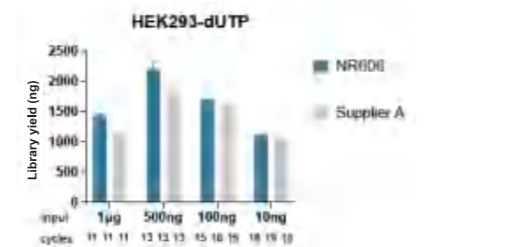
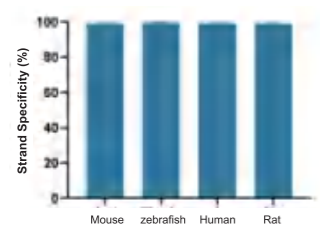
Compatible with multiple sample types

The library construction using NR606 for RNA from different species indicates that NR606 is compatible with various samples, and the library yield is significantly higher than Supplier A.



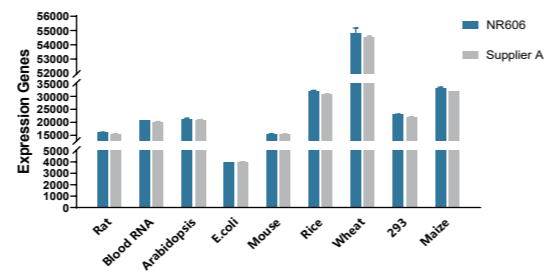
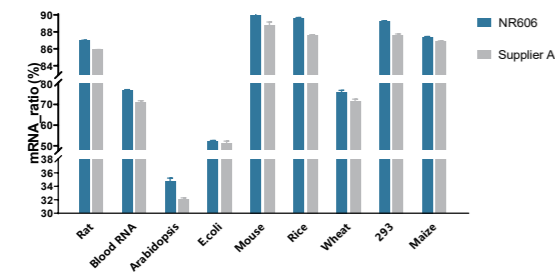
Superior strand specificity quality

Vazyme has developed variant enzymes with higher RNA dependence, thereby achieving excellent strand specificity. When using NR606 to construct strand specific libraries, it has high strand-specificity. Additionally, the yield of the strand-specific transcription library is higher than that of Supplier A.



High quality sequencing data

The results of sequencing data indicate that NR606 has a higher mRNA ratio than Supplier A, which enables better gene detection in the transcript region.



Small RNA Library Preparation

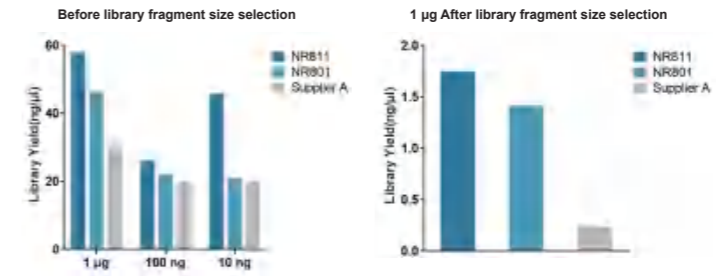
VAHTS Small RNA Library Prep Kit for Illumina V2 (#NR811)

Features

- **Extensive sample compatibility:** Plant and animal total RNA, specialized samples RNA (serum, plasma, exosomes), FFPE total RNA, isolated and purified small RNA.
- **Compatibility with low amounts:** 10 ng - 1 µg plant and animal total RNA, ≥ 1 ng serum, plasma, exosomes RNA.

Validation Data

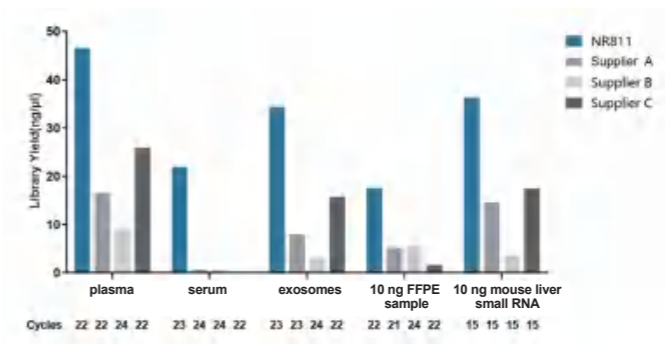
Library yield



Library yields from a range of input amounts.

Library constructed with special samples

Small RNA was isolated from 6 µl serum, plasma and exosomes, 10 ng FFPE sample and 10 ng mouse liver and libraries were made using Vazyme #NR811 and suppliers. The results show that NR811 produces the highest yields from different type samples.



Library yields with different special samples

RNA Library Preparation

RNA Library Preparation

Single-Cell Seq Series

Selection Guide

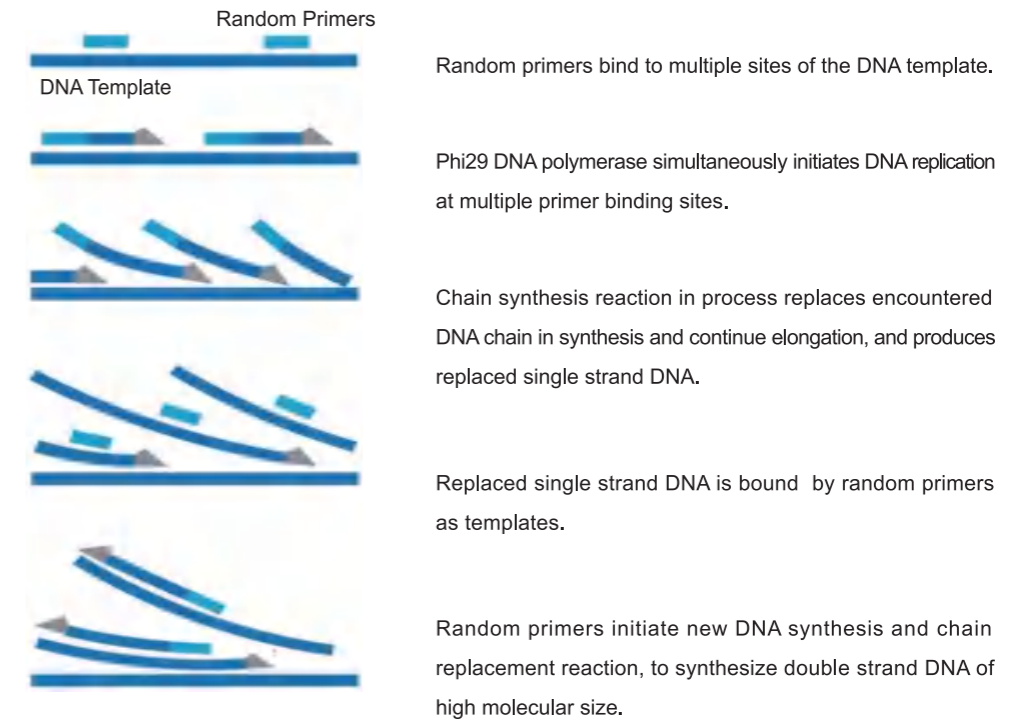
Application	Sample	Product Name	Cat. No.
Single-Cell genome amplification	1 - 1,000 cells; 1 pg - 10 ng DNA	Discover-sc Single Cell WGA Kit	N603-01/02
Single-Cell transcriptome amplification	1 - 1,000 cells; 1 pg - 10 ng DNA	Discover-sc WTA Kit V2	N711-01/02/03

Single Cell Genome Amplification

Protocol

Discover-sc Single Cell WGA Kit (Vazyme #N603) enables the rapid and whole genome non-discriminatory amplification of 1 - 1000 cells or microsamples within 2 h based on Multiplexed Displacement Amplification (MDA). The Phi29 DNA polymerase used in this kit is cloned from phage, which has high fidelity, strong strand displacement activity, high yield of single polymerization reaction.

The kit is widely used in Preimplantation Genetic Diagnosis/Screening (PGD/PGS), tumor stem cell typing, animal genotyping, metagenomics, and other applications.



Single-Cell Genome Amplification

Discover-sc Single Cell WGA Kit (#N603)

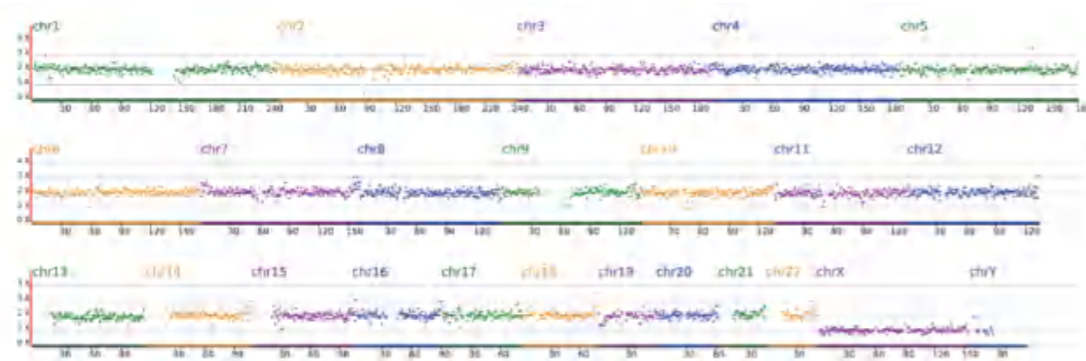
Features

- **Broad samples compatibility:** For plant and animal cells, bacteria or oocytes, trophoblast cells, sperm, etc.
- **High coverage:** Achieve more than 95% coverage with single cell.
- **High fidelity:** Phi29 DNA polymerase has 1,000 times the fidelity of Taq.
- **Easy operation:** Operating time less than 10 min.



Validation Data

Libraries were made from a few cells with Vazyme #N603 and perform Illumina MiniSeq Sequencing. The raw data show that reads are distributed evenly across the genome, indicating that Vazyme #N603 amplification homogeneity is good.



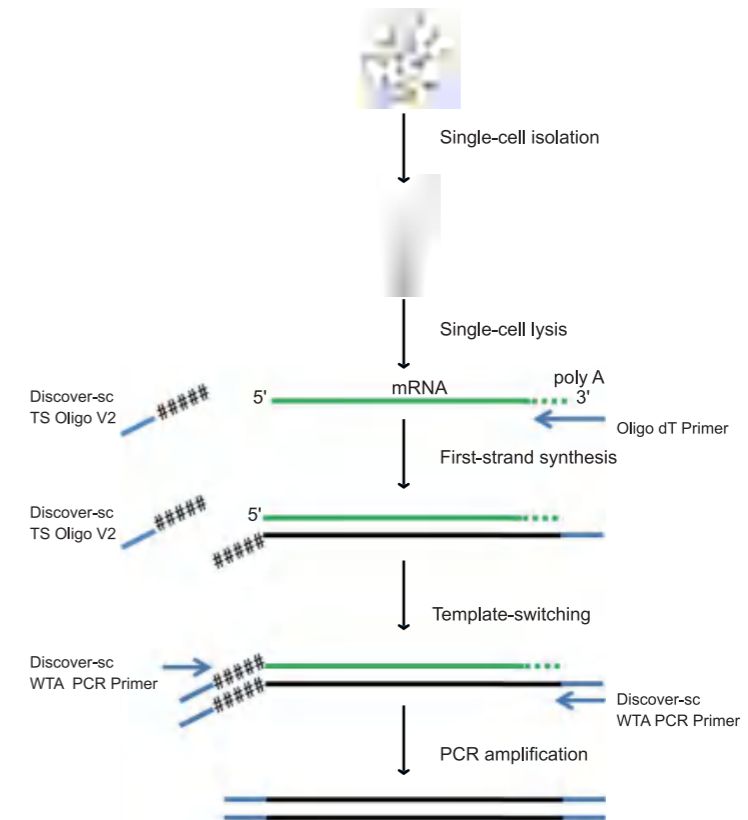
Genome-wide copy number scatter plot

Single Cell Transcriptome Amplification

● ● ● ● ● P r o t o c o l

Discover-sc WTA Kit V2 (Vazyme #N711) can provide high quality, full length transcript sequencing data consistently from 1 - 1000 cells or 10 pg - 10 ng total RNA. Discover-sc WTA Kit V2 is an upgraded version of the Discover-sc WTA Kit. The sensitivity and volume compatibility of the WTA Kit V2 have been greatly improved, making it more suitable for the detection of low abundance genes and low concentration of templates.

Mechanism & Workflow



Mechanism of Full-length cDNA Synthesis Based on Template-switching

Single-Cell Transcriptome Amplification

Discover-sc WTA Kit V2 (#N711)

Features

- **Compatibility with low amounts:** Generate the highest libraries yields from single cells or 10 pg total RNA.
- **High amplification sensitivity:** The use of LNA technology and a carefully optimized reaction system dramatically allows the experience unmatched detection of low abundance transcripts.
- **Great product integrity:** Obtain full length, uniform transcript coverage, avoiding 3' and 5' end bias.
- **Wide sample volume compatibility:** Available with different sample volume and concentration.

Validation Data

■ Higher gene detection rates

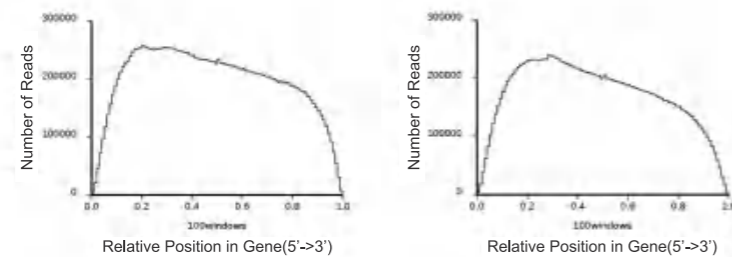
Vazyme-1 and Vazyme-2 are cDNA amplified from a single 293T cells using Discover-sc WTA Kit V2. C-1 and C-2 are cDNA amplified from a single 293T cells using Supplier C. For TruePrep DNA Library Prep Kit V2 for Illumina workflow, as recommended, 1 ng of cDNA was used as input in sequencing library preparation.

As can be seen from the results, the Discover-sc WTA Kit V2 is highly sensitive in detecting amplification products, with up to 15,000 genes detected in a single 293T cell.

Samples	Expression Genes	Mapped to genome	Mapped to rRNA	Mapped to exon	Mapped to intron	Mapped to intergenic
Vazyme-1	14807	88.4%	1.24%	86.1%	10.5%	3.46%
Vazyme-2	15138	88.2%	3.06%	86.9%	9.4%	3.72%
C-1	14367	84.6%	1.76%	85.9%	10.3%	3.77%
C-2	15285	84.7%	2.27%	82.0%	13.5%	4.56%

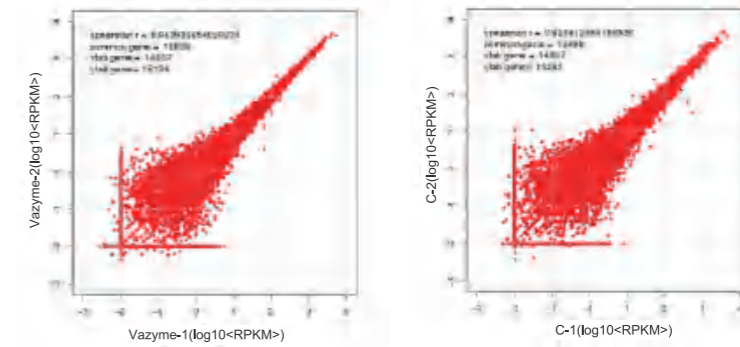
■ Uniform transcript coverage

The relative positive of Vazyme-1 (figure left) and C-1 (figure right) sequenced fragments in gene. The data show that the Discover-sc WTA Kit V2 is very good at obtaining full length and uniform transcript coverage.



■ High expression repeatability

The left figure shows the expression repetition correlation analysis between Vazyme-1 and Vazyme-2, and the right figure shows the expression repeatability correlation analysis between Supplier C-1 and C-2. The data results indicate that Vazyme #N711 has higher expression repetition correlation than Supplier C.



Epigenetics Series

Selection Guide

Application	Product Name	Cat. No.	
DNA Methylation	Methylation conversion	EpiArt DNA Enzymatic Methylation Kit	EM301
		EpiArt Magnetic DNA Methylation Bisulfite Kit	EM103
	Library preparation Kit	EpiArt DNA Methylation Library Kit for Illumina V3	NE103
Nucleic Acid-Protein Interaction	CUT&Tag ConA Beads	VAHTS Concanavalin A-coated Magnetic Beads Pro	N515
	CUT&Tag Kit	Hyperactive Universal CUT&Tag Assay Kit for Illumina	TD903
		Hyperactive Universal CUT&Tag Assay Kit for Illumina Pro	TD904
	CUT&RUN Kit	Hyperactive pG-MNase CUT&RUN Assay Kit for PCR/qPCR	HD101
		Hyperactive pG-MNase CUT&RUN Assay Kit for Illumina	HD102
Chromatin Accessibility	ATAC-seq Module	TruePrep DNA Library Prep Kit V2 for Illumina	TD501/ TD502/ TD503
	ATAC-seq Kit	Hyperactive ATAC-Seq Library Prep Kit for Illumina	TD711

DNA Methylation Conversion

EpiArt Magnetic DNA Methylation Bisulfite Kit (#EM103)

Features

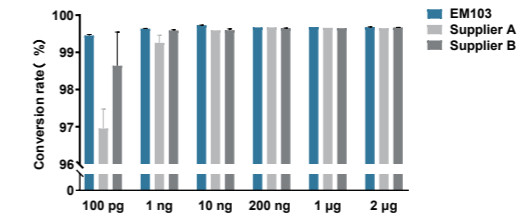
- **Reliable:** Methylation conversion rate $\geq 99.5\%$
- **Scalable:** Adaptable for manual or automated processing.
- **Fast:** 100 minutes of streamlined workflow



Validation Data

■ Excellent methylation conversion rate

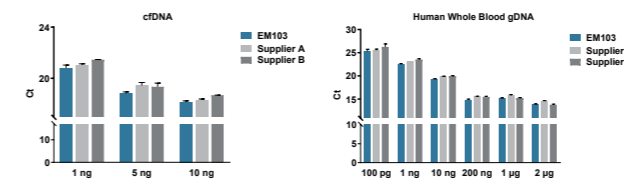
Experiments were performed using 293 cellular gDNA mixed with 1% unmethylated Lambda DNA. Vazyme #EM103 has higher conversion rates than Supplier A and B from a range of input amount shown.



■ Excellent downstream compatibility

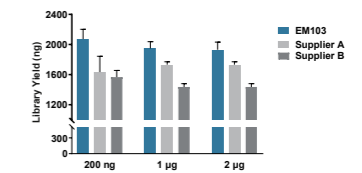
A. For qPCR

Human cfDNA and human whole blood were bisulfite converted, and recovery was assessed by qPCR (Vazyme #EM701). Vazyme #EM103 has better performance than Supplier A and B.



B. For library preparation

NA12878 standard, mixed with 1% unmethylated Lambda DNA, was bisulfite converted, and used for library preparation. Vazyme #EM103 produces the higher yields than suppliers from a range of input amounts.



DNA Methylation Library Preparation

EpiArtDNA Methylation Library Kit for Illumina V3 (#NE103)

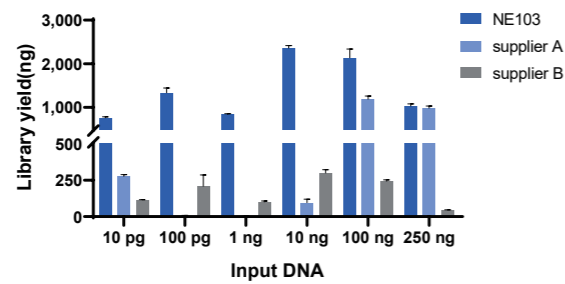
Features

- **Fast workflow:** 2 h for a single sample to construct library.
- **Wide compatibility of sample inputs:** Compatible with 10 pg - 250 ng methylation conversion products.
- **Reliable:** Perform excellent in sequencing data from different sample types and input amounts.

Validation Data

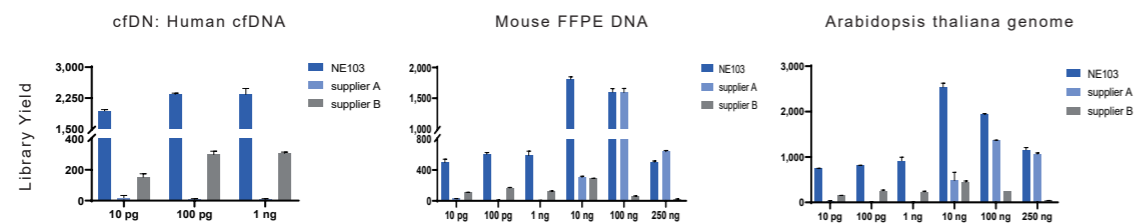
Wide compatibility of sample inputs

293 cell gDNA was bisulfite converted, and used for library preparation. Vazyme #NE103 has higher library yields using input amounts shown than suppliers.



Compatible with different sample types

Vazyme #NE103 has higher library yields using different sample types shown than suppliers.



Beads and Quantification Series

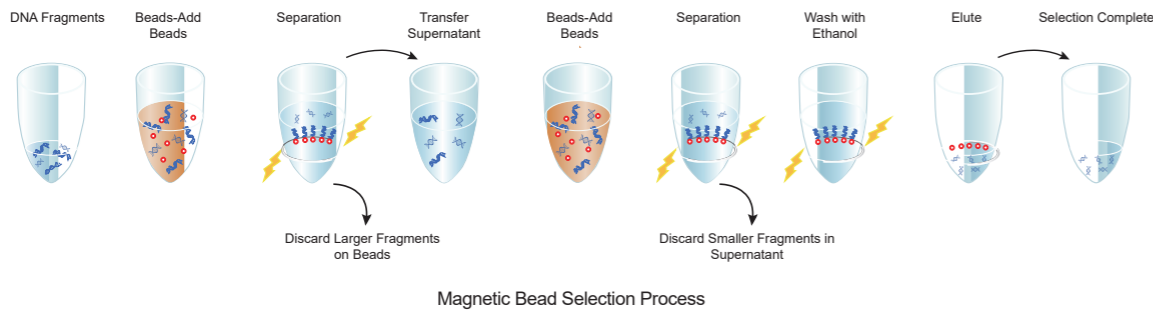
Selection Guide

Application	Product Name	Cat. No.	
Beads	DNA Clean-Up Beads	VAHTS DNA Clean Beads	N411
		VAHTS RNA Clean Beads	N412
	Streptavidin Magnetic Beads	VAHTS CA-28 Streptavidin	N512
	Magnetic Rack	Magnetic Separation Rack	CM101
	Magnetic Rack	Magnetic Separation Rack	CM103
Quantification	qPCR Library Quantification	VAHTS Library Quantification Kit for Illumina 2.0	NQ107
		VAHTS Library Quantification Kit for Illumina DNA Standard 1 - 6	NQ105
		Library Dilution Buffer	NQ106
	Qubit Quantification	Equalbit 1 × dsDNA HS Assay Kit	EQ121
		Equalbit dsDNA BR Assay Kit	EQ122
		Equalbit RNA HS Assay Kit	EQ211
		Equalbit RNA BR Assay Kit	EQ212

Beads Series

VAHTS DNA Clean Beads (#N411)

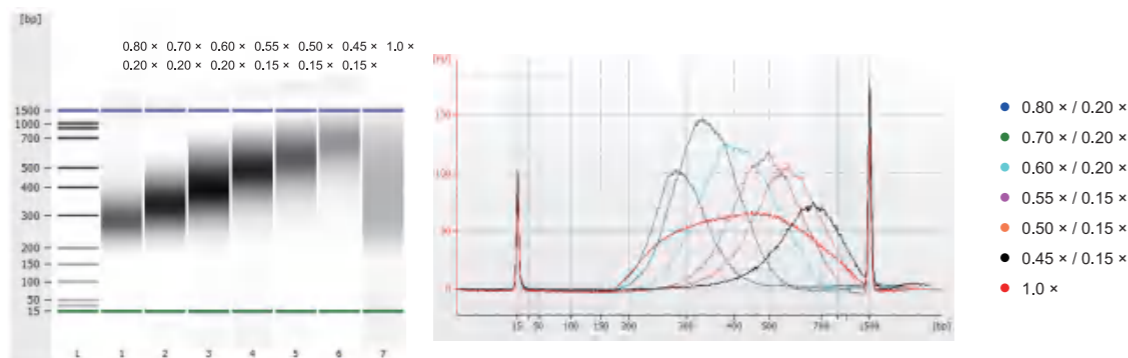
Workflow



Validation Data

DNA library was prepared with TruePrep DNA Library Prep Kit V2 for Illumina (Vazyme #TD501). The initial library size were 200 - 1,500 bp and were selected with VAHTS DNA Clean Beads as described in the table below. The final libraries size were analyzed with an Agilent 2100 Bioanalyzer.

Volume of beads for 1st round (Beads: DNA)	0.80 ×	0.70 ×	0.60 ×	0.55 ×	0.50 ×	0.45 ×	1.0 ×
Volume of beads for 2nd round (Beads: DNA)	0.20 ×	0.20 ×	0.20 ×	0.15 ×	0.15 ×	0.15 ×	
Average total length of the library (bp)	300	350	400	500	600	700	200-1,500



Quantification Series

Equalbit 1 × dsDNA HS Assay Kit (#EQ121)

Features

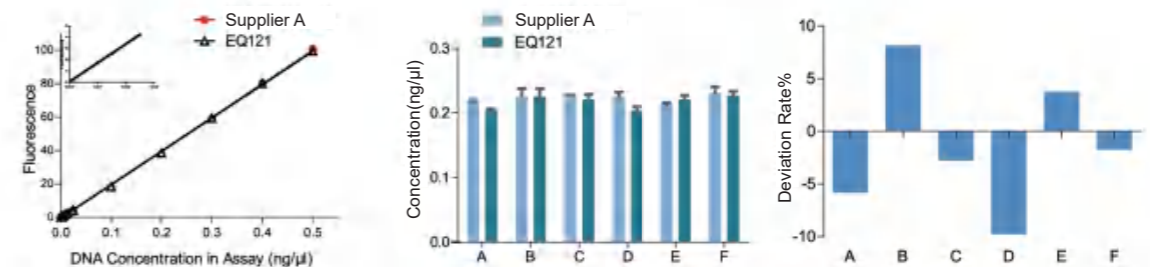
- **Easy to operation:** Ready-to-use premix, simplify the operation steps.
- **High sensitivity and specificity:** Available for 0.2 - 100 ng DNA and specific DNA quantification.
- **High stability:** Strictly control the production process to ensure the stability of batch to batch.



Validation Data

High Sensitivity

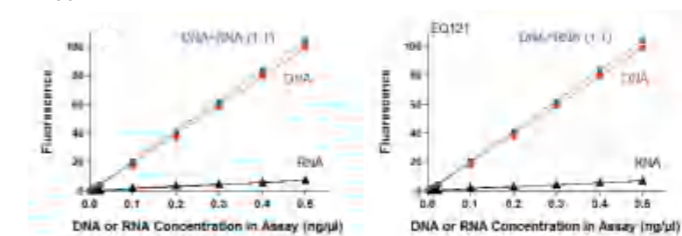
Quantification experiments were carried out with Vazyme #EQ121 and Supplier A using 12 different concentrations of dsDNA samples. Data show good linearity from 0.2 - 100 ng for total dsDNA samples. Standard 2 of Vazyme #EQ121 was serially diluted to 0.2 ng/μl and 6 experimenters perform experiments at the same time. The results show that the deviation rate between Vazyme #EQ121 and Supplier A is within 10% near the critical test point. (Deviation rate = Concentration difference measured by Vazyme #EQ121 and Supplier A / Concentration values measured by Supplier A)



Low concentration results and deviation rate from different experimenters; A, B, C, D, E, F for different experimenters

High Specificity

Quantification experiments were carried out with Vazyme #EQ121 and Supplier A using the sample type and the input shown. The results show that EQ121 can accurately quantify dsDNA even in the presence of RNA, and its performance is comparable to that of Supplier A.



Bio-Medicine

III Selection Guide

Bio-medicine	Product Sort	Product Name	Cat. No.	Features
New Drug Research Products	Cell Viability Assay	CellCounting-Lite 2.0 Luminescent	DD1101	<ol style="list-style-type: none"> 1. One component, one step 2. No need to store in portions
		CellCounting-Lite 3D Luminescent Cell Viability Assay	DD1102	<ol style="list-style-type: none"> 1. One component, one step 2. No need to store in portions 3. Strong lysis ability & accurate quantification
	Luciferase Reporter Gene Assay	Bio-Lite Luciferase Assay System	DD1201	<ol style="list-style-type: none"> 1. Easy operation 2. Validated by ICH guidelines 3. Compatible with high throughput
		Duo-Lite Luciferase Assay System	DD1205	<ol style="list-style-type: none"> 1. Amplified reaction signal, extremely high sensitivity, wide linear range, detection limit can be as low as 10-18 mol protein 2. Internal reference report gene regulation, stable and accurate data
	Add&Read TR-FRET Solution	Add&Read Human IgG Kit	DD2101	<ol style="list-style-type: none"> 1. Sandwich method, detection of monoclonal antibodies 2. Good subtype compatibility High sensitivity
		Add&Read Human Cytokine Quantification Kit	DD27	<ol style="list-style-type: none"> 1. Easy to operate, just add sample and incubate at room temperature for testing 2. Save sample, only 16μL is needed 3. Fast, shorter reaction time than ELISA 4. High-throughput matching equipment can achieve high-throughput detection
		Add&Read cAMP Detection Kit	DD2801	<ol style="list-style-type: none"> 1. Considering both window and sensitivity 2. Multiple applications, can be used for Gs or Gi pathway 3. Time-saving and simplified operation 4. High-Throughput Screening for GPCR target drugs

05
Product Introduction
Bio-Medicine

Bio-medicine	Product Sort	Product Name	Cat. No.	Features
mRNA Raw Materials	mRNA GMP Enzymes	T7 RNA Polymerase (200 U/μl, GMP Grade)	GMP4101PB	1. High purity, high activity 2. Strong stability and strong template adapt ability 3. High fidelity
		T7 Turbo RNA Polymerase (200 U/μl, GMP Grade)	GMP4120PB	1. Reduced dsRNA residues, low immunogenicity 2. High yield, high integrity 3. Economize on cap analogue inputs
		Murine RNase Inhibitor (40 U/μl, GMP Grade)	GMP4102PA	1. GMP-grade 2. Low residue 3. High enzyme activity, high purity
		Pyrophosphatase, Inorganic (yeast, 0.1 U/μl, GMP Grade)	GMP4103PC	1. GMP-grade 2. Low residue 3. High enzyme activity, high purity
		DNase I (1 U/μl, GMP Grade)	GMP4104PC	1. GMP-grade 2. Low residue 3. High enzyme activity, high purity
	mRNA QC Reagents	EasyAna dsRNA (Modified) Quantitative Detection Kit (ELISA) 2.0	DD3509EN	1. Easy-to-operate 2. Nucleic Acid Antibody Screening Techniques 3. Method verification
		Double-stranded RNA (dsRNA) (Standard)	DD3413	1. Batch to batch stability 2. Long-term stability
		dsRNA-Pseudouridine-U (Standard)	DD3436	1. Batch to batch stability 2. Long-term stability
		dsRNA-N1-me-Pseudo-U (Standard)	DD3437	1. Batch to batch stability 2. Long-term stability
		EasyAna T7 RNA Polymerase Quantitative Detection Kit (ELISA)	DD3504EN	1. Easy-to-operate 2. High analytical sensitivity & Good accuracy & Great precision & Good specificity 3. Method verification
	mRNA R&D Reagents	T7 High Yield RNA Transcription Kit	DD4201	1. Simple to operate 2. High capping rate, high yield, high expression efficiency
		CAG EGFP mRNA(N1-Me-Pseudo UTP 1 mg/ml)	DD4503	1.High expression efficiency 2.High stability
		Firefly Luciferase mRNA (N1-Me-Pseudo UTP 1 mg/ml)	DD4511	

Cell Viability Assay

CellCounting-Lite 2.0 Luminescent Cell Viability Assay (#DD1101)

Features

- **Simple operation:** single component, and one step, with sub-package and freeze-thaw being avoided
- **High stability:** It can be stored at 2 ~ 8°C
- **High sensitivity:** It can detect at least 10 to 15 cells.

Product Description

CellCounting-Lite 2.0 is a cell viability detection reagent based on the luciferase system. The reagent contains luciferin with high purity and thermostable luciferase. This product shall be added to the cell culture to make the cell lyse and release ATP, so that the reaction can occur and a stable "glow" signal shall be sent out.

Detection Principle

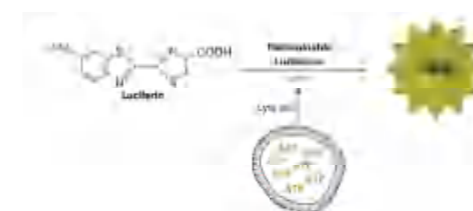


Figure 1

Workflow

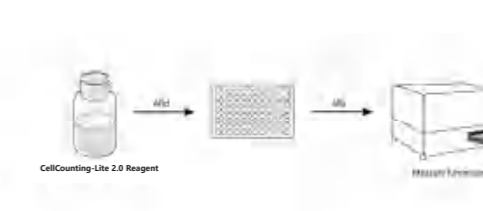


Figure 2

Performance Test

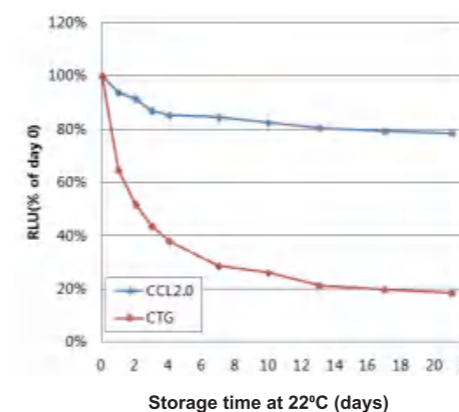


Figure 3

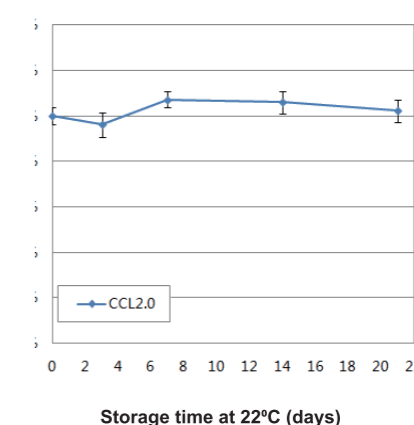


Figure 4

Luciferase Reporter Gene Assay

Add&Read TR-FRET Solution

Bio-Lite Luciferase Assay System (#DD1201)

Add&Read Human Cytokine Quantification Kit (DD2101)

Features

- Longer detection window
- Stable signal, with half-life period up to 55 min
- Pre-verified by ICH guidelines

Features

- Easy to operate, just add sample and incubate at room temperature for testing
- Save sample, only 16µL is needed
- Fast, shorter reaction time than ELISA
- High-throughput matching equipment can achieve high-throughput detection

Product Description

Bio-Lite Luciferase Assay system is a firefly luciferase reporter gene assay kit with high sensitivity, stability and homogeneity. The kit can be used to detect various bioactivities in the functional screening and development of biomacromolecule candidate drugs, such as Fc effect detection, T cell activation detection, immune checkpoint detection, and cytokine and growth factor detection

Detection Principle

Detection Principle

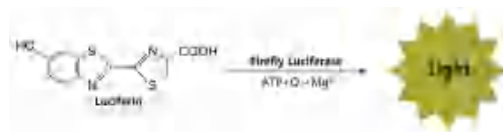


Figure 1

Workflow

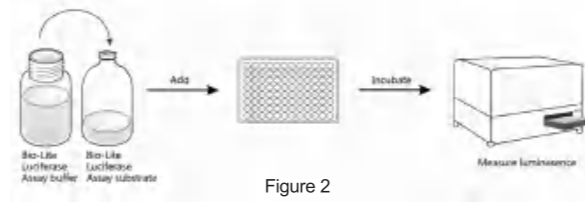
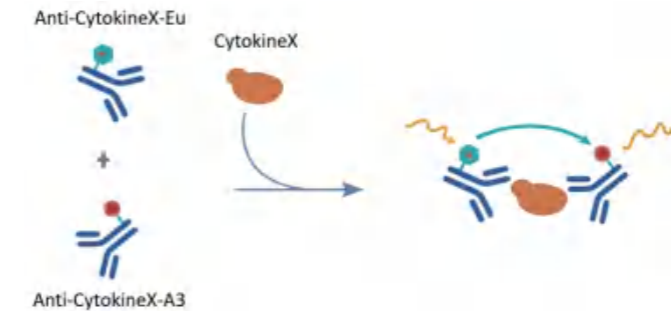


Figure 2

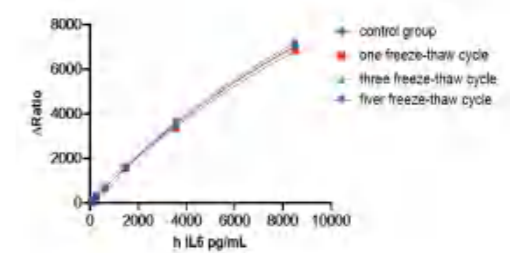
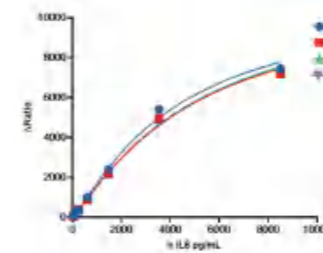
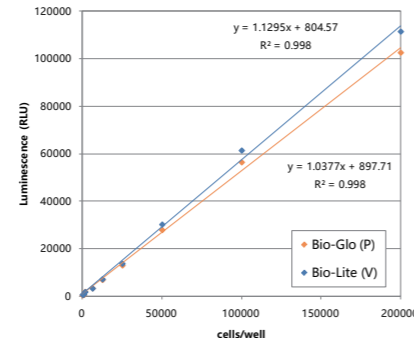
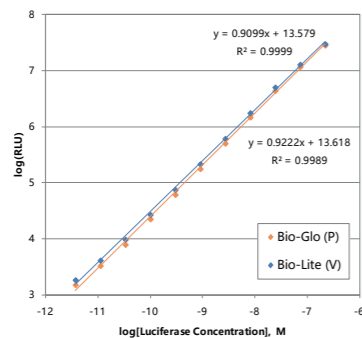


Performance Test

Data Presentation (IL6 for example)

Standards are stable

Vazyme DD2703-C standard was accelerated and frozen and thawed at 4°C for 5 times. The difference in signal value change of each gradient was CV <15%.



- Firefly Luciferase: diluted with DMEM
- Plate: 96-well opaque black

- Jurkat cells: induced with 50ng/ml PMA & 1µg/ml ionomycin
- Plate: 96-well opaque white

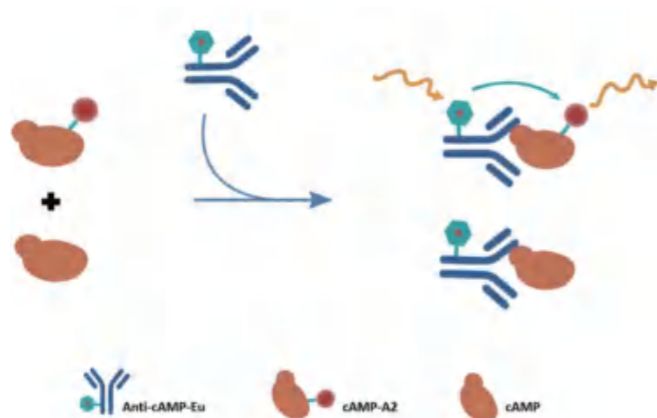
Add&Read TR-FRET Solution

Add&Read cAMP Detection Kit (DD2801)

Features

- Considering both window and sensitivity
- Multiple applications, can be used for Gs or Gi pathway
- Time-saving and simplified operation
- High-Throughput Screening for GPCR target drugs

Detection Principle

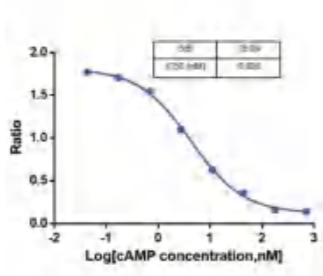


Data Presentation

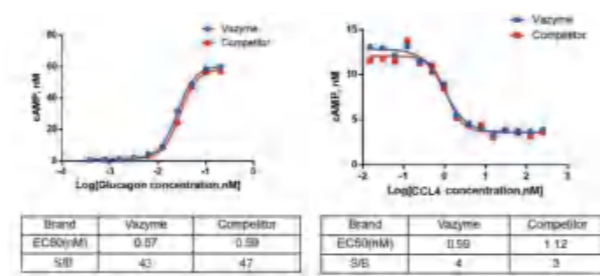
Performance Demonstration

The detection range of Add&Read cAMP Detection Kit is 0.04~712 nM . The accurate quantitative range is 1C10~1C90.

Concentrations (nM)	Ratio
712	0.44
178	0.49
415	0.25
11.72	0.62
2.78	1.10
0.85	1.54
0.17	1.70
0.04	1.77



Validation in Different Applications



dsRNA Detection Kit

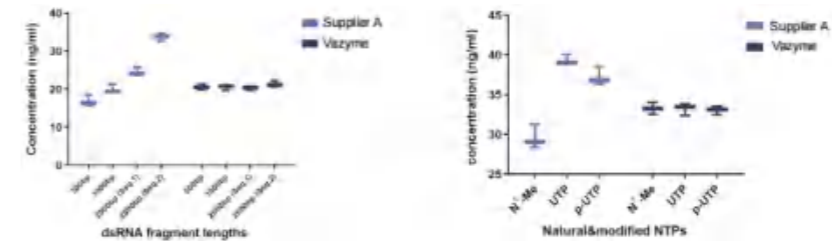
EasyAna dsRNA (Modified) Quantitative Detection Kit (ELISA) 2.0 (#DD3509EN)

Features

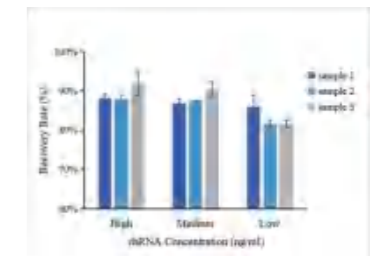
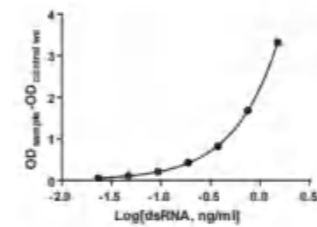
- **Easy-to-operate:** 1.Pre-coated ELISA Plates can slash over 20 hours* of coating time and minimize the risk of inaccuracies caused by human handling. 2.All components for the experiment are fully equipped
- **Nucleic Acid Antibody Screening Techniques:** Antibodies compatible with different dsRNA sequences
- **Method verification:** High analytical sensitivity&Good accuracy&Great precision&Good specificity

Nucleic Acid Antibody Screening Techniques

Enable Antibodies Compatible with Different dsRNA Sequences;Bid farewell to the hassles of extensive sequence corrections, reduce the R&D and validation efforts.



Method verification



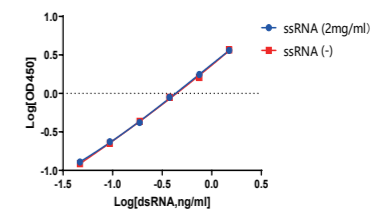
High analytical sensitivity: LOD < 10 pg/ml, LOQ=46.87 pg/ml

Good accuracy: recovery within 80%–120%

Attached Table (1/1)	Range:
Minimum detection (LOD and LOQ) (20 samples)	~1.00E+00-7.0E+01
Minimum recovery (1:10 and 1:100 dilution)	~12.5% to 121.4%
Minimum recovery (1:10 and 1:100 dilution)	~9.92% to 2.85%
Minimum recovery (1:10 and 1:100 dilution)	~3.91% to 1.57%
Minimum recovery (LOD and LOQ) (20 samples)	~2.91% to 14.0%
Minimum recovery (1:10 and 1:100 dilution)	~3.22% to 112.7%
Minimum recovery (LOD and LOQ) (20 samples)	~0.27% to 10.0%
Minimum recovery (1:10 and 1:100 dilution)	~8.83% to 11.81%
Minimum recovery (LOD and LOQ) (20 samples)	~5.46% to 11.6%
Total Rec (1:10 and 1:100 dilution)	~6.26% to 11.1%

Great precision: CV < 15%, ensuring the repeatability data

Good specificity: not interfere with other forms of nucleic acids or IVT enzyme



T7 RNAP Mutant (Reduce dsRNA)

T7 Turbo RNA Polymerase (200 U/μl, GMP Grade) (#GMP4120PB)

Features

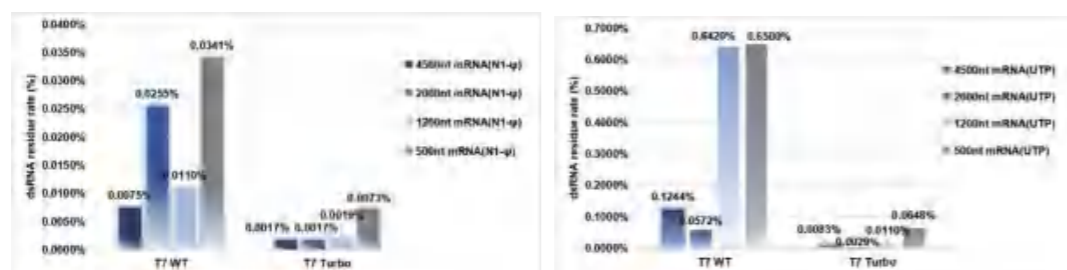
- Dramatically reduce dsRNA
- improve the utilization rate of cap analogue
- Guarantee mRNA CQA standard

Product Overview

T7 Turbo RNA polymerase, a protein encoded by the bacteriophage T7 DNA expressed in the recombinant E.coli, is a mutant T7 RNA polymerase suitable for mRNA therapeutic research and development. In vitro transcription with T7 Turbo RNA Polymerase efficiently produces high-quality mRNA while minimizing the presence of dsRNA impurities.

Data Presentation

■ Reduce dsRNA content more than 5-fold



■ Reduce cap analogue inputs more than 75%

