Molecular Biology Research

Product List

Nucleic Acid Isolation

RNA Isolation (Precipitation)

Product Name	Size	Cat.No.#	Price (USD)
Upcoming FreeZol Reagent	100/200 ml	R711-01/02	178/318

RNA Isolation (Column)

Product Name	Size	Cat.No.#	Price (USD)
FastPure Cell / Tissue Total RNA Isolation Kit V2	50 rxns	RC112-01	207
FastPure Plant Total RNA Isolation Kit (Polysaccharides&Polyphenolics-rich)	50 rxns	RC401-01	250

DNA Isolation (Column)

Product Name	Size	Cat.No.#	Price (USD)
FastPure Blood / Cell / Tissue / Bacteria DNA Isolation Mini Kit	50/200 rxns	DC112-01/02	159/558
FastPure EndoFree Plasmid Maxi Kit	10 rxns	DC202-01	198
FastPure Gel DNA Extraction Mini Kit	100 rxns	DC301-01	162

DNA/RNA Co-Isolation (Column)

Product Name	Size	Cat.No.#	Price (USD)
Upcoming FastPure Viral DNA/RNA Mini Kit Pro	50 rxns	RC323	274

Virus Nucleic Acid Isolation (Magnetic Beads/Automatic)

Product Name	Size	Cat.No.#	Price (USD)
Upcoming VAMNE Virus DNA/RNA Extraction Kit 3.0 (32 Prepackaged)	50/48/96 T	RM501-01/02/03	108/99/192
Upcoming VAMNE Virus DNA/RNA Extraction Kit 3.0 (96 Prepackaged)	96 T	RM502	192

Automatic Nucleic Acid Isolation System

Product Name	Size	Cat.No.#	Price (USD)
Automatic Nucleic Acid Extraction Instrument	1	VNP-32P	20000
Upcoming Automatic Nucleic Acid Extraction Instrument	1	VNP-96	30000

Residual DNA Isolation

Product Name	Size	Cat.No.#	Price (USD)
ResiDNA Hunter Residual DNA Sample Preparation Kit	100 rxns	RD101	813

Rapid Sample Treatment

Product Name	Size	Cat.No.#	Price (USD)
Room Temp Sample Lysis Kit	250/1000/5000 rxns	P073-01/02/03	168/560/2300

Nucleic Acid Isolation Related Products

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

Product Introduction

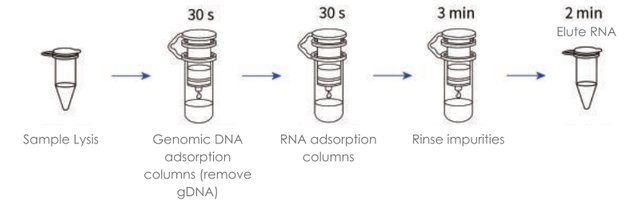
Selection Guide

Category	Series	Sample / Application	Products	Cat.No.#
Sedimentation	RNA Isolation	Universal	FreeZol Reagent	R711-01/02
Column	DNA Isolation	Blood/Cell/Tissue/ Bacteria	FastPure Blood/Cell/Tissue/Bacteria DNA Isolation Mini Kit	DC112-01
		Plasmid Extraction	FastPure EndoFree Plasmid Maxi kit	DC202-01
		Gel&PCR DNA Recovery	FastPure Gel DNA Extraction Mini Kit	DC301-01
	RNA Isolation	Cell/Tissue total RNA	FastPure Cell/Tissue Total RNA Isolation Kit V2	RC112-01
		Universal Plant total RNA	FastPure Plant Total RNA Isolation Kit (Polysaccharides&Polyphenolics-rich)	RC401-01
	DNA/RNA Co-Isolation	Virus Nucleic Acid Extraction	FastPure Viral DNA/RNA Mini Kit Pro	RC323-01
Magnetic Beads	Nucleic Acid Isolation	Automatic Extraction	VAMNE Virus DNA/RNA Extraction Kit 3.0 (32 Prepackaged)	RM501-01/02/03
			VAMNE Virus DNA/RNA Extraction Kit 3.0 (96 Prepackaged)	RM502
	Residual DNA Isolation	Manual Isolation	ResiDNA Hunter Residual DNA Sample Preparation Kit	RD101
Others	Rapid sample Treatment	DriectPCR/SNP Detection/RT-qPCR	Room Temp Sample Lysis Kit	P073-01/02/03
	Nucleic Acid Isolation Related Products	Environmental Nucleic Acid Remove	RNase, RNA and DNA Remover	R504-01
	Automatic Nucleic Acid Isolation System		Automatic Nucleic Acid Isolation Instrument (32)	VNP-32P
			Automatic Nucleic Acid Isolation Instrument (96)	VNP-96

Cell/tissue RNA Isolation

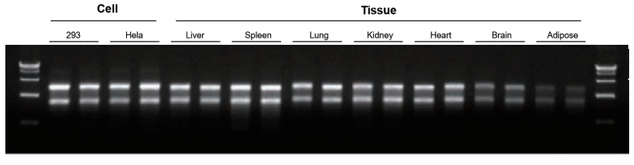
FastPure Cell/Tissue Total RNA Isolation Kit V2 (#RC112)

Workflow



Only 6 min

Validation Data



Total RNA was extracted using Vazyme #RC112 from 9 samples including 293 cells, HeLa cells, liver, spleen, lung, kidney, heart, brain of rat, and adipose tissue of mice. The RNA products were loaded for agarose gel electrophoresis. Vazyme #RC112 shows great compatibility with different cell and tissue samples.

Features

- **Safe and non-toxic**
  No need for toxic and harmful reagents such as beta-mercaptoethanol, phenol and chloroform
- **Fast**
  Operation takes only 6 minutes at room temperature.

Plant RNA Isolater

Features

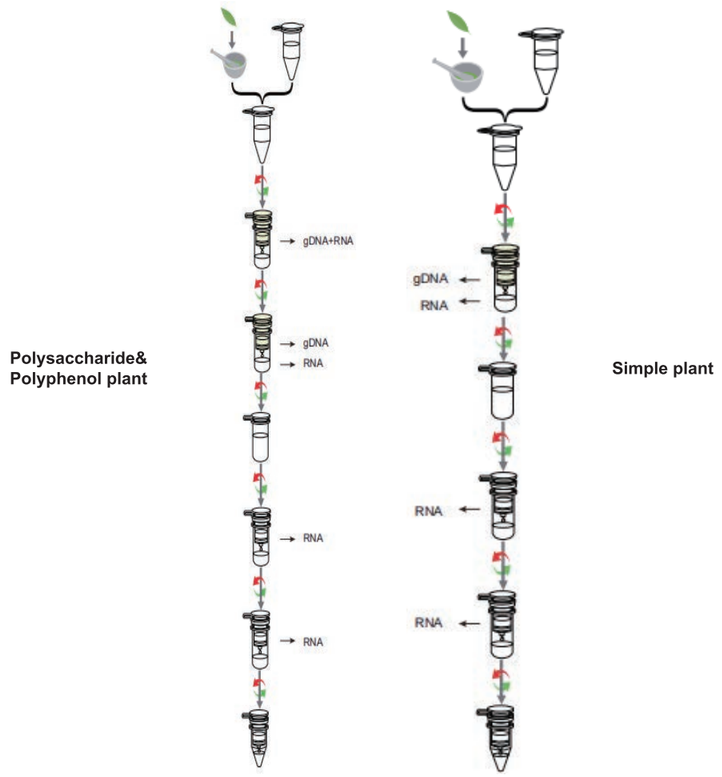
- **Wide simple compatibility**
The kit is suitable for extraction of total RNA from simple plant or lysaccharides&polyphenolics-rich plant
- **High purity**
The obtained RNA is of high purity and can be directly used in downstream experiments requiring high purity
- **Few genomic residues**
The kit is equipped with a genome adsorption column, and the genomic DNA can be removed efficiently by this

FastPure Plant Total RNA Isolation Kit (Polysaccharides&Polyphenolics-rich) (#RC401)

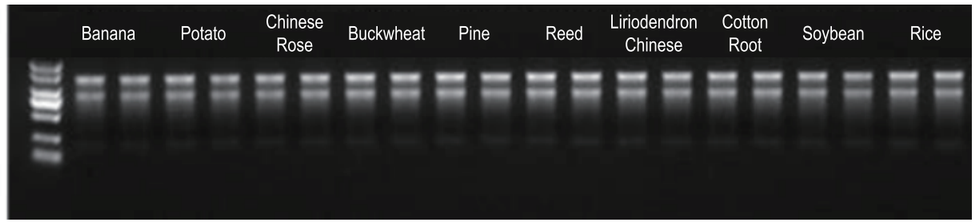
Product Description

This kit is suitable for rapid extraction of total RNA from plant tissues, especially plant tissues rich in polysaccharides, polyphenols or starch (such as cotton, mature rice, pine needles, poplar, loquat, potato, Arabidopsis seeds, etc.). At the same time, it provides extraction solutions for common plant tissues (such as Arabidopsis, tobacco, etc.). The kit adopts silica gel column purification technology, and no toxic reagents such as phenol chloroform and time-consuming alcohol precipitation are required during the extraction process. FastPure gDNA-Filter Column can effectively separate nucleic acid and tissue lysate, and remove genomic DNA by adsorption. FastPure RNA Column can bind RNA efficiently, with the optimized Buffer, the obtained total RNA is of high purity, free from protein and other impurities. The obtained total RNA can be directly used in various downstream related experiments such as RT-PCR, Real Time PCR, microarry, Northern Blot, Dot Blot, PolyA screening, in vitro translation, RNase protection analysis and molecular cloning.

Workflow



Validation data



Use Vazyme #RC401 to extract 50 mg of RNA from banana fruit, potato tuber, Chinese rose petal, pine needle, reed leaf, Liriodendron Chinese, cotton root, soybean leaf, rice leaf and 20 mg buckwheat seed. The elution volume was 100 µl, and load volume was 2 - 10 µl. The product was detected by 1% agarose gel electrophoresis. It can be seen from the figure that Vazyme #RC401 has good sample compatibility. For polysaccharide polyphenol and non-polysaccharide polyphenol plant samples, Vazyme #RC401 shows good integrity and high yield for RNA extraction.

Blood, Cell, Tissue and Bacteria DNA Isolation

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

Validated Samples

Blood:

Human EDTA, heparin sodium, sodium citrate anticoagulant blood, pig blood, chicken blood and other fresh or frozen anticoagulant blood;

Bacteria: DH5a, Staphylococcus aureus (S. aureus), etc;

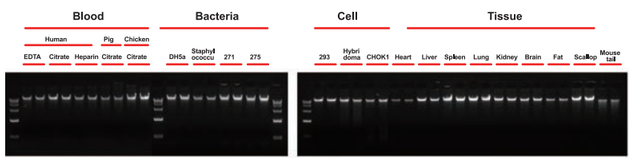
Cells:

Human 293 cells, mouse hybridoma cells, hamster CHO-K1 cells, etc;

Tissue:

heart, liver, spleen, lung, kidney, brain of rat, fat and tail of mouse, scallop and other tissues

Validation Data



The genomic DNA was extracted from the above samples using Vazyme #DC112, including 200 μl human blood samples with EDTA, heparin sodium, and sodium citrate, 200 μl pig blood, 20 μl chicken blood, etc. The results show that Vazyme #DC112 has a wide range of sample compatibility and can perform high-quality extraction of genomic DNA from different species.

M: DL15000 DNA Marker (Vazyme, #MD103). The elution volume was 100 μl and the loading amount was 160 - 180 ng for agarose gel electrophoresis.

Features

- **High quality and integrity**
- **Suitable for direct DNA extraction from a variety of fresh or frozen anticoagulant, cell, animal tissue and bacterial samples**
- **Fast**

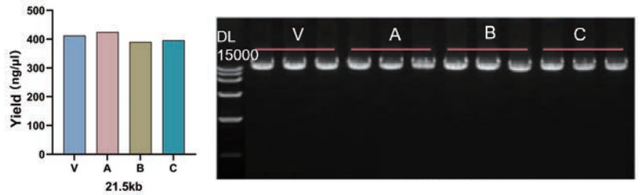
The gDNA from animal tissue can be extacted within 30 minutes.

Plasmid Isolation

FastPure EndoFree Plasmid Maxi kit (#DC202)

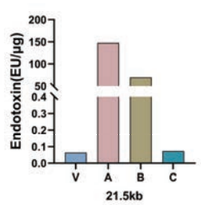
Application

This product is suitable for large-scale extraction of plasmids from 150-300 ml of bacterial solution cultured overnight



Validation Data

The plasmid was extracted by using Vazyme #DC202 (V for short) and other commercial products (A, B, C). The extraction products was detected by using 1% agarose gel electrophoresis. The results show that Vazyme #DC202 has a higher yield and better quality.



The endotoxin of products above was detected. The results show that the plasmid extracted by Vazyme #DC202 has a lower content of endotoxin.

Features

- **High yield**

High extraction efficiency, the yield of plasmid up to 1.5 mg

- **Endotoxin content**

The content of endotoxin is extremely low (< 0.1 EU/ μg DNA) , and subsequent transfection level experiments can be done

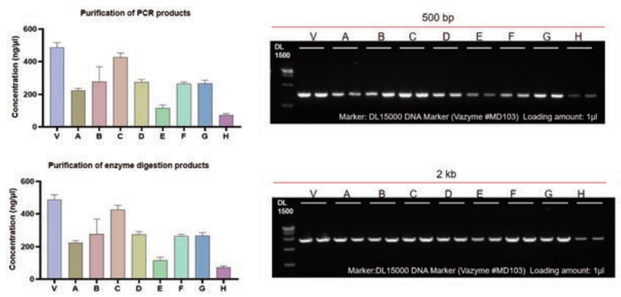
Blood, Cell, Tissue and Bacteria DNA Isolation

FastPure Gel DNA Extraction Mini Kit (#DC301)

Validated Samples

Suitable for TAE or TBE agarose gels in various concentrations; crude DNA products obtained by PCR products, enzymatic reaction systems or various other methods; Recycled fragments range from 70 bp - 20 Kb.

Validation Data



The genomic DNA was extracted from the above samples using Vazyme #DC112, including 200 μl human blood samples with EDTA, heparin sodium, and sodium citrate, 200 μl pig blood, 20 μl chicken blood, etc. The results show that Vazyme #DC112 has a wide range of sample compatibility and can perform high-quality extraction of genomic DNA from different species.

M: DL15000 DNA Marker (Vazyme, #MD103). The elution volume was 100 μl and the loading amount was 160 - 180 ng for agarose gel electrophoresis.

Features

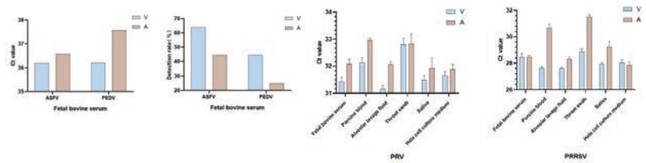
- **High quality and integrity**
- **Suitable for direct DNA extraction from a variety of fresh or frozen anticoagulant, cell, animal tissue and bacterial samples**
- **Fast**

The gDNA from animal tissue can be extacted within 30 minutes.

Viral DNA/RNA Isolation

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

Validation Data



■ Efficient extraction of trace nucleic acid

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 similar products of manufacturer A, and the extracted products were detected by qPCR. The lower the average Ct value, the higher the extraction efficiency. The higher the number of detections, the higher the detection rate.The results showed that the extraction efficiency and detection rate of Vazyme #RC323 for low-concentration virus samples were better than those of similar products from A manufacturer (Graph 1).

■ 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 extraction was carried out according to the extraction process of Vazyme #RC323 (V) and similar products of manufacturer A, and the extracted products were detected by qPCR. The lower the average Ct 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 of similar products from A manufacturer (Graph 2).

Features

- **Excellent performance**

Easily capture trace nucleic acids

- **Wide sample compatibility**

Suitable for whole blood, serum, plasma, swab, tissue, alveolar lavage fluid, cell culture supernatant and other samples

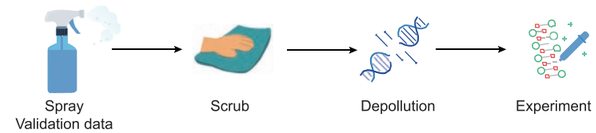
- **Efficient and rapid**

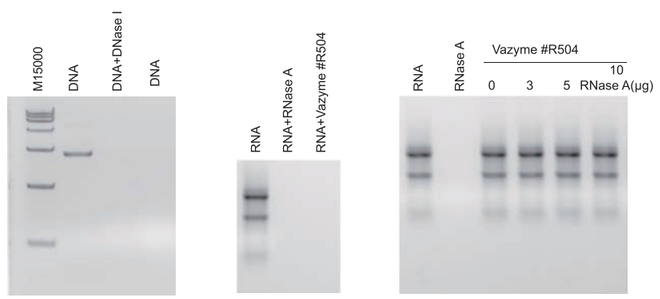
Operate at room temperature for only **12 min**

Nucleic Acid Isolation Related Products

RNase, RNA and DNA Remover (#R504)

Workflow





■ Effective removal of nucleic acid contamination

The RNase, RNA and DNA Remover (Vazyme #R504) were mixed with 1μg pUC19 plasmid sample and 1μg RNA sample respectively, and incubated at room temperature. The results of electrophoresis in agarose gel show that Vazyme #R504 can effectively remove DNA and RNA contamination.

■ Efficient degradation of RNase

The RNase, RNA and DNA Remover(Vazyme #R504) and different doses of RNase were added to the tubes, incubated at room temperature, then added 1μg RNA sample.The results show that Vazyme #R504 can effectively degrade RNase.

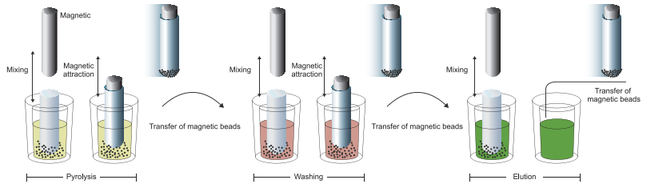
Features

- **Efficient**
  Remove RNase and DNA/ RNA contamination in the laboratory to create a safe and reliable experimental environment
- **Safe**
  No volatilization, harmless to human body, no pollution to the environment
- **Convenient**
  Single component liquid form, ready to spray

Automatic Nucleic Acids Extraction Instrument

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

How it works



1.Pyrolysis

In the lysis, the cells or pathogens rupture, releasing nucleic acids. Nucleic acids are adsorbed to magnetic beads by hydrogen bonding or electrostatic action.

2.Washing

The magnetic rod transfers the magnetic beads adsorbed with nucleic acids to the washing solution, and the proteins and salt ions are removed after multiple washes.

3.Elution

The magnetic rod transfers the adsorbed magnetic beads to the elutate for elution to obtain a high-quality nucleic acid solution for downstream experiments.

Features

- **Fast and efficient**
  With prepackaged extraction reagents, 32 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

Selected Product Citations

- Dai, C., Zhang, Q., Shen, L., Sharma, G., Jiang, H., Wang, Z., & Shen, J. (2022). Quercetin Attenuates Quinocetone-Induced Cell Apoptosis In Vitro by Activating the P38/Nrf2/HO-1 Pathway and Inhibiting the ROS/Mitochondrial Apoptotic Pathway. Antioxidants (Basel, Switzerland), 11(8), 1498. https://doi.org/10.3390/antiox11081498 IF:7.675 (#RC112)
- Liu, Y., Yu, H., Guo, Y., Huang, D., Liu, J., Pan, M., Wang, L., Zhang, W., & Mai, K. (2021). Arginine Regulates TOR Signaling Pathway through SLC38A9 in Abalone Haliotis discus hannai. Cells, 10(10), 2552. https://doi.org/10.3390/cells10102552 IF: 7.666 (#RC112)
- Zhang, J., Fan, X., Zhou, Y., Chen, L., & Rao, H. (2022). The PRMT5-LSD1 axis confers Slug dual transcriptional activities and promotes breast cancer progression. Journal of experimental & clinical cancer research : CR, 41(1), 191. https://doi.org/10.1186/s13046-022-02400-7 IF:12.658 (#RC112)
- Liang, L., Li, J., Yu, J., Liu, J., Xiu, L., Zeng, J., Wang, T., Li, N., & Wu, L. (2022). Establishment and validation of a novel invasion-related gene signature for predicting the prognosis of ovarian cancer. Cancer cell international, 22(1), 118. https://doi.org/10.1186/s12935-022-02502-4 IF: 6.429 (#RC112)
- Wang, Y., Zhang, J., Yuan, Z., & Sun, L. (2022). Characterization of the pathogenicity of a Bacillus cereus isolate from the Mariana Trench. Virulence, 13(1), 1062–1075. https://doi.org/10.1080/21505594.2022.2088641 IF: 5.428 (#DC112)
- Yu, Z., He, K., Cao, W., Aleem, M. T., Yan, R., Xu, L., Song, X., & Li, X. (2022). Nano vaccines for T. gondii Ribosomal P2 Protein With Nanomaterials as a Promising DNA Vaccine Against Toxoplasmosis. Frontiers in immunology, 13, 839489. https://doi.org/10.3389/fimmu.2022.839489 IF: 8.786 (#DC202)
- Chen, C., Zhang, Y., Liu, J., Wang, M., Lu, M., Xu, L., Yan, R., Li, X., & Song, X. (2022). An Eimeria maxima Antigen: Its Functions on Stimulating Th1 Cytokines and Protective Efficacy Against Coccidiosis. Frontiers in immunology, 13, 872015. https://doi.org/10.3389/fimmu.2022.872015 IF: 8.786 (#DC202)
- Hou, L., Wang, L., Wu, X., Gao, W., Zhang, J., & Huang, C. (2019). Expression patterns of two pal genes of Pleurotus ostreatus across developmental stages and under heat stress. BMC microbiology, 19(1), 231. https://doi.org/10.1186/s12866-019-1594-4 IF: 4.465 (#DC301)
- Ding, S., Chen, G., Wei, Y., Dong, J., Du, F., Cui, X., Huang, X., & Tang, Z. (2021). Sequence-specific and multiplex detection of COVID-19 virus (SARS-CoV-2) using proofreading enzyme-mediated probe cleavage coupled with isothermal amplification. Biosensors & bioelectronics, 178, 113041. IF: 12.545 https://doi.org/10.1016/j.bios.2021.113041 (#DC301)
- Wan, T., Zhong, J., Pan, Q., Zhou, T., Ping, Y., & Liu, X. (2022). Exosome-mediated delivery of Cas9 ribonucleoprotein complexes for tissue-specific gene therapy of liver diseases. Science advances, 8(37), eabp9435. https://doi.org/10.1126/sciadv.abp9435 IF: 14.957 (#DC301)
- Yu, L., Zhu, H., Wang, Z., Huang, J., Zhu, Y., Fan, G., Wang, Y., Chen, X., & Zhou, G. (2022). Circular RNA circFIRRE drives osteosarcoma progression and metastasis through tumorigenic-angiogenic coupling. Molecular cancer, 21(1), 167. https://doi.org/10.1186/s12943-022-01624-7 IF: 41.444 (#DC301)
- Gong, H., Chen, H., Xiao, P., Huang, N., Han, X., Zhang, J., Yang, Y., Li, T., Zhao, T., Tai, H., Xu, W., Zhang, G., Gong, C., Yang, M., Tang, X., & Xiao, H. (2022). miR-146a impedes the anti-aging effect of AMPK via NAMPT suppression and NAD+/SIRT inactivation. Signal transduction and targeted therapy, 7(1), 66. https://doi.org/10.1038/s41392-022-00886-3 IF: 38.104 (#DC301)

PCR

High-Fidelity PCR

Product Name	Size	Cat.No.#	Price (USD)
HOT Phanta Max Super-Fidelity DNA Polymerase	100 U/500 U/1,000 U	P505-d1/d2/d3	127/463/870
HOT 2 × Phanta Max Master Mix	1 ml /5 × 1 ml/ 15 × 1 ml	P515-01/02/03	91/248/696
HOT 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 Flash Master Mix	1 ml /5 × 1 ml/ 15 × 1 ml	P510-01/02/03	114/310/870
HOT 2 × Phanta Flash Master Mix (Dye Plus)	1 ml /5 × 1 ml/ 15 × 1 ml	P520-01/02/03	114/310/870
2 × KeyPo Master Mix (Dye Plus)	1 ml /5 × 1 ml/ 15 × 1 ml	PK511-01/02/03	69/225/609

Conventional PCR

Product Name	Size	Cat.No.#	Price (USD)
2 × Taq Master Mix	5 × 1 ml/ 15 × 1 ml/ 50 × 1 ml	P111-01/02/03	74/197/580
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)	5 ml/10 × 5 ml	P115-01/02/03	77/580
Green Taq Mix	5 × 1 ml/ 15 × 1 ml/ 50 × 1 ml	P131-01/02/03	74/197/580

High-Yield PCR

Product Name	Size	Cat.No.#	Price (USD)
2 × Taq Plus Master Mix	5 × 1 ml/15 × 1 ml/ 50 × 1 ml	P211-01/02/03	118/324/1014
2 × Taq Plus Master Mix (Dye Plus)	5 × 1 ml/15 × 1 ml/ 50 × 1 ml	P212-01/02/03	118/324/1014
2 × Taq Plus Master Mix II (Dye Plus)	5 × 1 ml/15 × 1 ml/ 50 × 1 ml	P213-01/02/03	118/324/1014

Rapid PCR

Product Name	Size	Cat.No.#	Price (USD)
2 × Rapid Taq Master Mix	5 × 1 ml/ 15 × 1 ml	P222-01/02	107/289
HOT 2 × Rapid Taq Master Mix	50 ml (50 x 1 ml)	P222-03	860
2 × Rapid Taq Master Mix	50 ml (10 x 5 ml)	P222-04	860

Direct PCR

Product Name	Size	Cat.No.#	Price (USD)
One Step Mouse Genotyping Kit	200 rxns (50 μl/rxn)	PD101-01	261
Blood Direct PCR Kit V2	50 rxns / 200 rxns (50 μl/rxn)	PD103-01/02	103/377
Plant Direct PCR Kit	50 rxns / 200 rxns (50 μl/rxn)	PD105-01/02	87/319

PCR-Related

Product Name	Size	Cat.No.#	Price (USD)
dNTP Mix (10 mM each)	1 ml / 5 x 1 ml	P031-01/02	50/217

Cloning/Mutagenesis

Fast Cloning

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
HOT ClonExpress Ultra One Step Cloning Kit	25 rxns/50 rxns (10 μl/rxn)	C115-01/02	268/435

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

Product Name	Size	Cat.No.#	Price (USD)
5min Universal Ligation Mix	50 rxns/100 rxns (10 μl/rxn)	C311-01/02	145/232

TOPO Cloning

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
5 min TOPO-Blunt Cloning Kit	20 rxns/40 rxns (2 μl/rxn)	C602-01/02	164/290

Nucleic Acid Electrophoresis

GelRed Nucleic Acid Stain

Product Name	Size	Cat.No.#	Price (USD)
Ultra GelRed (10,000 ×)	0.5 ml/10 × 0.5 ml/ 100 × 0.5 ml	GR501-01/02/03	107/966/8696

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

Reverse Transcription

Conventional RT-PCR

Product Name	Size	Cat.No.#	Price (USD)
HiScript II 1st Strand cDNA Synthesis Kit	50 rxns/100 rxns (20 μl/rxn)	R211-01/02	177/319
HiScript II 1st Strand cDNA Synthesis Kit (+gDNA wiper)	50 rxns/100 rxns (20 μl/rxn)	R212-01/02	217/362
HiScript III 1st Strand cDNA Synthesis Kit (+gDNA wiper)	50 rxns/100 rxns (20 μl/rxn)	R312-01/02	326/478

RT-qPCR SuperMix

Product Name	Size	Cat.No.#	Price (USD)
HiScript II Q RT SuperMix for qPCR	100 rxns (20 μl/rxn)	R222-01	290
HiScript II Q RT SuperMix for qPCR (+gDNA wiper)	100 rxns (20 μl/rxn)	R223-01	319
HiScript II Q Select RT SuperMix for qPCR	100 rxns (20 μl/rxn)	R232-01	290
HiScript II Q Select RT SuperMix for qPCR (+gDNA wiper)	100 rxns (20 μl/rxn)	R233-01	319
HOT HiScript III RT SuperMix for qPCR (+gDNA wiper)	100 rxns (20 μl/rxn)	R323-01	435
HiScript III All-in-one RT SuperMix Perfect for qPCR	100 rxns (20 μl/rxn)	R333-01	435

Single Cell Sequence Amplification

Product Name	Size	Cat.No.#	Price (USD)
Single Cell Sequence Specific Amplification Kit	200 rxns (20 μl/rxn)	P621-01	870

miRNA Reverse Transcription

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

qPCR

qPCR Master Mix (SYBR-Green)

Product Name	Size	Cat.No.#	Price (USD)
ChamQ SYBR qPCR Master Mix	500 rxns/2,500 rxns (20 μl/rxn)	Q311-02/03	241/1087
ChamQ SYBR qPCR Master Mix (Without ROX)	500 rxns/2,500 rxns (20 μl/rxn)	Q321-02/03	241/1087
ChamQ SYBR qPCR Master Mix (Low ROX Premixed)	500 rxns/2,500 rxns (20 μl/rxn)	Q331-02/03	241/1087
ChamQ SYBR qPCR Master Mix (High ROX Premixed)	500 rxns/2,500 rxns (20 μl/rxn)	Q341-02/03	241/1087
ChamQ SYBR Color qPCR Master Mix	500 rxns/2,500 rxns (20 μl/rxn)	Q411-02/03	281/1268
ChamQ SYBR Color qPCR Master Mix (Without ROX)	500 rxns/2,500 rxns (20 μl/rxn)	Q421-02/03	281/1268
ChamQ SYBR Color qPCR Master Mix (Low ROX Premixed)	500 rxns/2,500 rxns (20 μl/rxn)	Q431-02/03	281/1268
ChamQ SYBR Color qPCR Master Mix (High ROX Premixed)	500 rxns/2,500 rxns (20 μl/rxn)	Q441-02/03	281/1268
ChamQ Universal SYBR qPCR Master Mix	500 rxns/2,500 rxns (20 μl/rxn)	Q711-02/03	305/1377
HOT Taq Pro Universal SYBR qPCR Master Mix	500 rxns/2,500 rxns (20 μl/rxn)	Q712-02/03	322/1450

miRNA qPCR

Product Name	Size	Cat.No.#	Price (USD)
miRNA Universal SYBR qPCR Master Mix	125 rxns / 500 rxns (20 μl/rxn)	MQ101-01/02	78/290

Host Cell Residual DNA Quantitative Detection

Product Name	Size	Cat.No.#	Price (USD)
ResiDNA Precise Quantitative CHO DNA Detection Kit	100 rxns (30 μl/rxn)	RD102-01	2319

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)	Q222-01	267
HiScript II One Step qRT-PCR Probe Kit	250 rxns (20 μl/rxn)	Q223-EN01	314

Genome Editing

Genome Editing

Product Name	Size	Cat.No.#	Price (USD)
T7 Endonuclease I	250 U/1,250 U	EN303-01/02	87/362

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

Cell Biology/Protein Research

Cell Apoptosis Detection

Product Name	Size	Cat.No.#	Price (USD)
TUNEL FITC Apoptosis Detection Kit	20 rxns/50 rxns/ 100 rxns	A111-01/02/03	337/571/870
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

Cell Proliferation Assay

Product Name	Size	Cat.No.#	Price (USD)
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	181

Mycoplasma Detection and Removal

Product Name	Size	Cat.No.#	Price (USD)
Myco-blue Mycoplasma Detector	20 rxns/50 rxns	D101-01/02	58/130
Myco-off Mycoplasma Cleaner	100 μl/500 μl/ 1,000 μl	D103-01/02/03	106/446/870

SDS-PAGE Gel Fast Preparation

Product Name	Size	Cat.No.#	Price (USD)
One-Step PAGE Gel Fast Preparation Kit (6%)	125 gels/0.75 mm	E301-01	271
One-Step PAGE Gel Fast Preparation Kit (8%)	125 gels/0.75 mm	E302-01	271
One-Step PAGE Gel Fast Preparation Kit (10%)	125 gels/0.75 mm	E303-01	271
One-Step PAGE Gel Fast Preparation Kit (12%)	125 gels/0.75 mm	E304-01	271
One-Step PAGE Gel Fast Preparation Kit (15%)	125 gels/0.75 mm	E305-01	271

BCA Protein Quantification

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

Product Information

PCR

Selection Guide

Series	Features	Applicable for	Products
High-Fidelity PCR	High fidelity and longer amplification lengths	Amplification of fragments that require high fidelity (e.g., molecular cloning)	P510 P520
Conventional PCR	No 3' --> 5' exonuclease activity; Low experimental requirements; High yield; Products contain an adenine at 3' end	Colony PCR; Large-scale gene identification; TA Cloning for short fragments	P115 P131
High-Yield PCR	With fidelity 6-fold higher than *Taq*; Mixed products are blunt-ended or containing an adenine at 3' end	Amplification with certain fidelity requirements	P213
Rapid PCR	Extension time achieves 15 sec/kb	Colony PCR	P222
Direct PCR	Easy and fast, without DNA isolation	Mouse genotyping	PD101
		Blood direct PCR	PD103
		Plant direct PCR	PD105

Parameter

Cat.No.#	Amplification length	Extension time (/kb)	PCR products	Fidelity (×*Taq*)
P510 P520	Human gDNA: ≤ 17.85 kb cDNA: ≤ 15 kb Plasmid: ≤ 15 kb	1 - 10 sec	Blunt end	81
P213	Human gDNA: ≤ 10 kb λDNA: ≤ 15 kb	30 - 60 sec	3'dA & Blunt end	6
P222	Human gDNA: ≤ 5 kb λDNA: ≤ 10 kb	15 sec	3'dA	1

High-Fidelity PCR

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

Validation Data

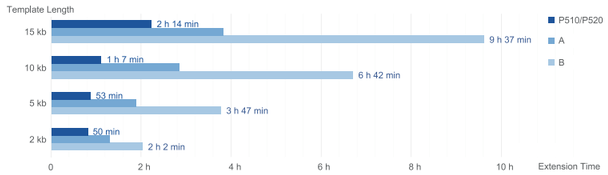
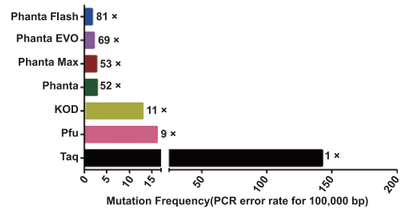


Fig. Comparison of amplification time between P510/P520 and commercial high-fidelity polymerases

Extension time: for DNA fragments ≤1 kb, 1 sec/kb; ≤10 kb, 4 - 5 sec/kb; >10 kb, 10 sec/kb



LacI Assay (Cline, J. et al. *Nucleic Acids Research*. 24:3546-3551(1996)) was used to determine the fidelity of various polymerases. The results show that Phanta Flash Super-Fidelity DNA Polymerase has ultra-high fidelity, and its fidelity is 81 times higher than *Taq* DNA Polymerase.

Selected Product Citations

Han, X., Zhou, Z., Fei, L., Sun, H., Wang, R., Chen, Y., ... & Guo, G. (2020). Construction of a human cell landscape at single-cell level. Nature, 581(7808), 303-309. **IF: 43.07**

Liu, C., Shen, L., Xiao, Y., Vyshedsky, D., Peng, C., Sun, X., ... & Li, C. (2021). Pollen PCP-B peptides unlock a stigma peptide–receptor kinase gating mechanism for pollination. Science, 372(6538), 171-175. **IF: 41.84**

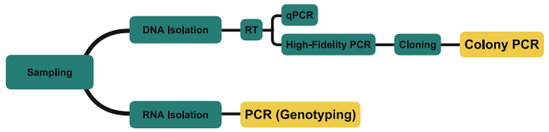
Features

- **Amplification of DNA fragments ≤10 kb can be completed within 1 h**
- **The fidelity is 81X higher than *Taq* DNA polymerase**
- **PCR products can be directly loaded for electrophoresis**

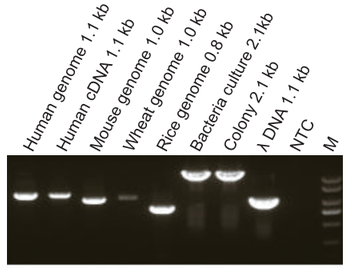
Rapid PCR

2 × Rapid Taq Master Mix (#P222)

Applications



Validation Data



Fragments (1 - 2 kb) were amplified from genomic DNA (mouse, human, wheat, rice), human cDNA, bacterial culture, colony, and λDNA, respectively. The extension time was set as 1 sec/kb. Using 10 μl of PCR products to perform agarose gel electrophoresis. Specific bands were observed.

Selected Product Citations

Zong, Y., Liu, Y., Xue, C., Li, B., Li, X., Wang, Y., ... & Gao, C. (2022). An engineered prime editor with enhanced editing efficiency in plants. Nature biotechnology, 1-9. **IF: 54.908**

Jin, S., Lin, Q., Luo, Y., Zhu, Z., Liu, G., Li, Y., ... & Gao, C. (2021). Genome-wide specificity of prime editors in plants. Nature Biotechnology, 39(10), 1292-1299. **IF: 36.558**

Features

- **Rapid**
  Amplification speed is 15 sec/kb (the speed can reach to 1 sec/kb for DNA fragments within 1 kb)
- **Excellent stability**
  Remains stable activity after 50 freeze-thaw cycles
- **Ready-to-use master mix with green loading buffer**

High-Yield PCR

2 × Taq Plus Master Mix II (Dye Plus) (#P213)

Validation Data

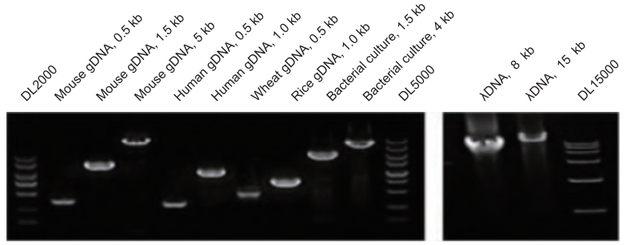


Fig. Template Compatibility Test

2 × Taq Plus Maaster Mix II (Vazyme, #P213) demonstrated excellent template compatibility. Fragments (0.5 - 15 kb) were amplified from genomic DNA(mouse, human, wheat and rice), bacterial culture, and λDNA, respectively. Specific bands were observed.

Selected Product Citations

Zhang, X. O., Wang, H. B., Zhang, Y., Lu, X., Chen, L. L., & Yang, L. (2014). Complementary sequence-mediated exon circularization. Cell, 159(1), 134-147. **IF: 33.116**

Yuan, H., Zhang, J., Cai, Y., Wu, S., Yang, K., Chan, H. C., ... & Tang, G. L. (2017). Gyrl-like proteins catalyze cyclopropanoid hydrolysis to confer cellular protection. Nature communications, 8(1), 1-8. **IF: 12.124**

Features

- **Robust performance for high-yield PCR in most primer-template systems**
- **Ready-to-use master mix**
- **PCR products can be directly loaded for electrophoresis**

Cloning/Mutagenesis

Selection Guide

Applications	Features	Applicable for	Products
Fast Cloning	Easy, fast, and efficient; No need to consider the restriction enzyme cutting sites on the inserts; Ligase-independent; Positive Clone Rate > 95%; Efficient cloning of fragments of 50 bp - 10 kb	Cloning of 1 - 5 fragments	C115 C112 C113
Rapid Site-Directed Mutagenesis	Efficient amplification of any plasmids within 20 kb; Site-directed mutations of 1 - 5 discontinuous sites in one reaction	1 - 5 site-directed mutagenesis on one plasmid	C214 C215
Traditional/ TA Cloning	Quick ligation at 25˚C for 5 min	Sticky end, blunt end, TA Cloning	C311
TOPO Cloning	High positive rate; Fast reaction; Longer ligated fragments	Blunt-end Cloning	C602

Parameter

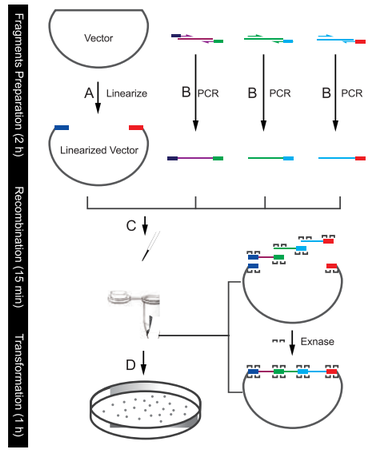
Cat.No.#	Conditions of Use	Application
C115	1 - 5 inserts (50 bp ≤ insert ≤ 10 kb)	Recombination of foreign genes into any site of the vector
C311	Ligation: Sticky end, blunt end, TA Cloning	Restriction endonuclease cloning
C602	PCR products (blunt end)	For sequencing, saving the target fragment

ClonExpress Ultra One Step Cloning Kit (#C115)

Applications

- ◇ Fast Cloning
- ◇ High-throughput Cloning
- ◇ Seamless Cloning
- ◇ DNA Site-directed Mutagenesis

Workflow



Selected Product Citations

Zong, Y., Liu, Y., Xue, C., Li, B., Li, X., Wang, Y., ... & Gao, C. (2022). An engineered prime editor with enhanced editing efficiency in plants. Nature biotechnology, 1-9. **IF: 54.908**

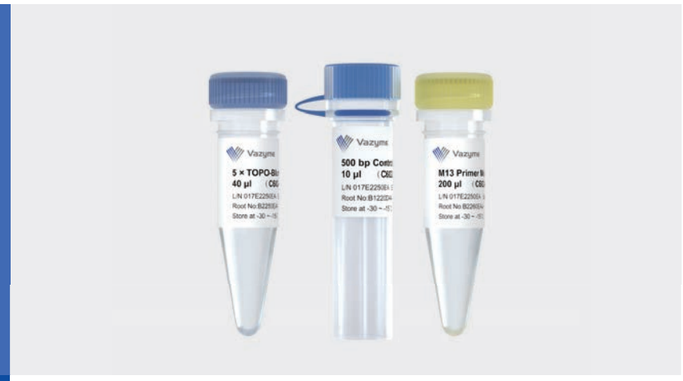
Zhou, Y., Kong, D., Wang, X., Yu, G., Wu, X., Guan, N., ... & Ye, H. (2022). A small and highly sensitive red/far-red optogenetic switch for applications in mammals. Nature Biotechnology, 40(2), 262-272. **IF: 54.908**

Fast Cloning

Features

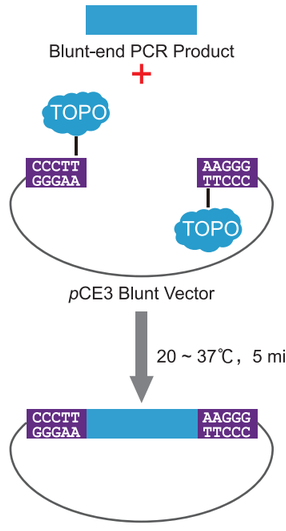
- **Recombination within 5 min**
- **Ready-to-use super mix in one tube.**
- **Efficient cloning of fragments of 50 bp - 10 kb with the rate of positive clones > 95%.**
- **Suitable for directional cloning of 1 - 5 fragments and entry cloning.**
- **No requirements of restriction digestion.**

TOPO Cloning



5 min TOPO-Blunt Cloning Kit (#C602)

workflow



Validation Data

Fig: Identification of positive rates after ligation of 1 kb, 3 kb, and 7 kb fragments

The recovered fragments of 1 kb, 3 kb, and 7 kb were ligated with Vazyme #C602 at 25°C for 5 min. Clones were picked for colony PCR verification after transformation and plating. As shown in the figure, the positive rates are 100%.

Features

- **Rapid cloning within 5 min**
- **High cloning efficiency with the rate of positive clones >95%**
- **Fragments of 12.6 kb can be ligated**

Traditional/ TA Cloning

5min Universal Ligation Mix (#C311)

Applications

- ◇ Sticky end ligation
- ◇ Blunt end ligation
- ◇ TA ligation
- ◇ Linker or Adapter ligation

Workflow

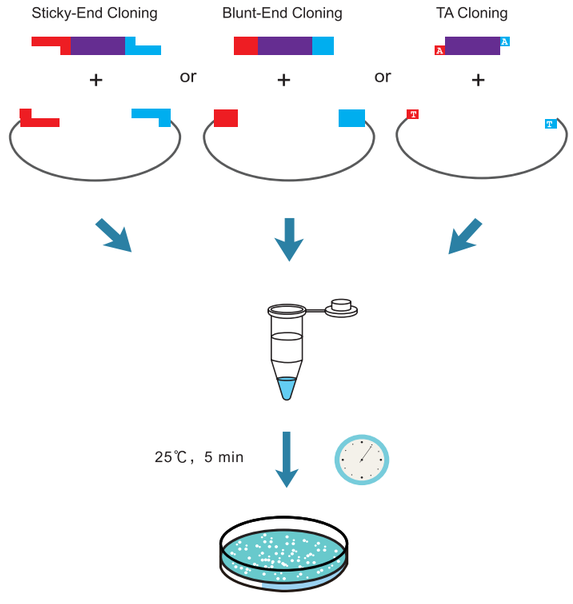


Fig. Template Compatibility Test

Features

- **Compitable with diferent types of ligation**
- **Fast: Recombination within 5 minutes at 25℃**
- **High cloning efficiency**

GelRed Nucleic Acid Stain

Features

• Safety & No toxicity

The macromolecular characteristics of Ultra GelRed make it unable to penetrate the cell membrane and enter the cell. The Ames test results show that its mutagenicity is far less than that of EB

Ultra GelRed (10,000×) (#GR501)

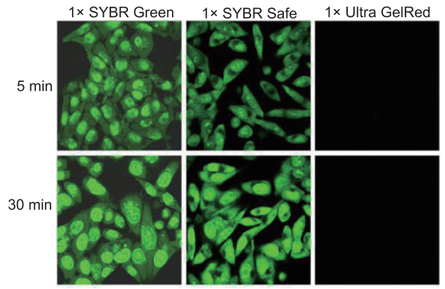
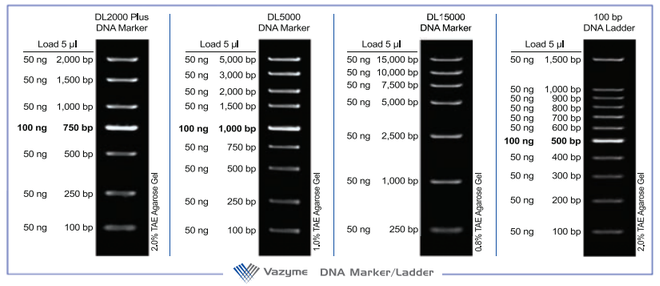


Fig. Cell membrane permeability testing for SYBR Green, SYBR Safe, and Ultra GelRed.

The results show that Ultra GelRed is unable to penetrate cell membranes.

DNA Marker/ Ladder

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



Features

• Stable performance

Place at room temperature for 6 months without affecting performance

• Convenient operations

Ready-to-use products

Reverse Transcription

Conventional RT-PCR

Cat.No.#	Features	Application
R312	**Excellent reverse transcription sensitivity:** Compatible with low input and degraded RNA templates **Strong impurity tolerance:** Resistant to common impurities such as ethanol, isopropanol, water balance phenol, guanidine isothiocyanate, humic acid, etc. **Excellent performance:** Synthesize 20 kb cDNA	For reverse transcription subsequent to PCR and qPCR

RT-qPCR SuperMix

Cat.No.#	Features	Application
R323	**Excellent reverse transcription sensitivity:** Compatible with low input and degraded RNA templates **Strong impurity tolerance:** Resistant to common impurities such as ethanol, isopropanol, water balance phenol, guanidine isothiocyanate, humic acid, etc. **Super Mix**	For Two-Step reverse transcription reaction; For reverse transcription followed by qPCR
R333	**Simple and fast operation:** Genomic DNA elimination and reverse transcription can be simultaneously completed in one step (15 min) **Ultra-high cDNA stability:** Heat-labile DNase, more thorough inactivation	For One-Step reverse transcription reaction; For reverse transcription followed by qPCR

miRNA Reverse Transcription

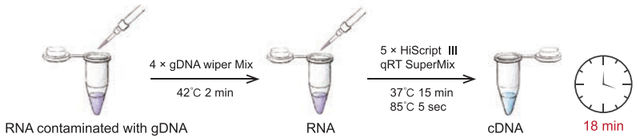
Cat.No.#	Features	Application
MR101/ MQ101	**Ultra-high amplification specificity** **Simple primer design:** Provide primer design software	miRNA reverse transcription (stem-loop) + miRNA qPCR (SYBR)

RT-qPCR SuperMix

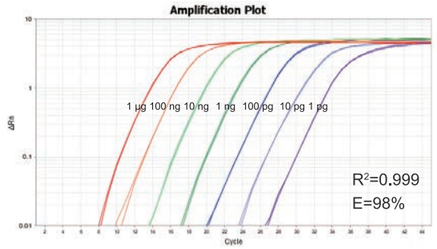
HiScript III RT SuperMix for qPCR (+gDNA wiper) (#R323)

Validation Data

1.Easy & Fast



2.Excellent Sensitivity



RNA from HeLa cells was serially diluted and reverse transcribed using HiScript III RT SuperMix for qPCR (+gDNA wiper) (Vazyme, #R323), followed by qPCR detection of gene ACTB. The results show an excellent linear relationship across a wide range of RNA concentrations. R323 can detect the *ACTB* gene in 1 pg RNA.

Selected Product Citations

Huang, B., Chen, Z., Geng, L., Wang, J., Liang, H., Cao, Y., ... & Zhang, Y. (2019). Mucosal profiling of pediatric-onset colitis and IBD reveals common pathogenics and therapeutic pathways. Cell, 179(5), 1160-1176.**IF: 36.216**

Wu, H., Qu, X., Dong, Z., Luo, L., Shao, C., Forner, J., ... & Zhao, Z. (2020). WUSCHEL triggers innate antiviral immunity in plant stem cells. Science, 370(6513), 227-231.**IF: 41.063**

Features

- **Ready-to-use SuperMix**
  Reverse transcription within 20 min by only adding template RNA
- **Excellent efficiency for low-input RNA or degraded RNA**
- **Excellent impurity tolerance (e.g., ethanol, isopropanol, phenol water, guanidine thiocyanate, humic acid)**
- **Lower C_T value and higher efficiency than most other commercially available reverse transcription kits**

RT-qPCR SuperMix

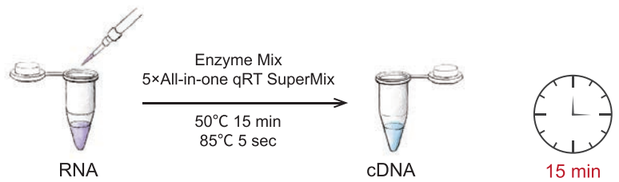
HiScript III All-in-one RT SuperMix Perfect for qPCR (#R333)

Validation Data

1.Easy & Fast

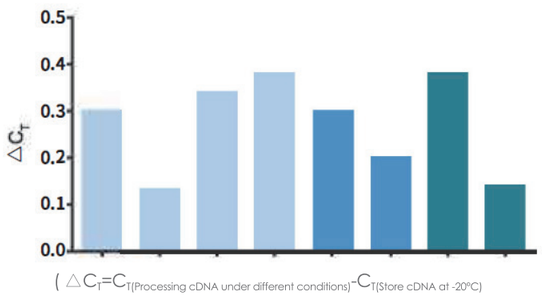
Genomic DNA elimination and reverse transcription can be simultaneously completed in one step.

Reverse transcription within 15 min by only adding template RNA.



2.Ultra-high cDNA stability

RNA of HeLa cells (100 ng) was reversed using HiScript III All-in-one RT SuperMix Perfect for qPCR (Vazyme #R333). The obtained cDNA was placed at 37˚C for 7 days, at 4˚C for 4 weeks, and 30 freeze-thaw cycles for accelerated stability test, while the cDNA was stored at -20˚C as a control. The qPCR results show that R333 has a superior stability.



($\triangle C_T = C_{T(\text{Processing cDNA under different conditions})} - C_{T(\text{Store cDNA at -20°C})}$)

Features

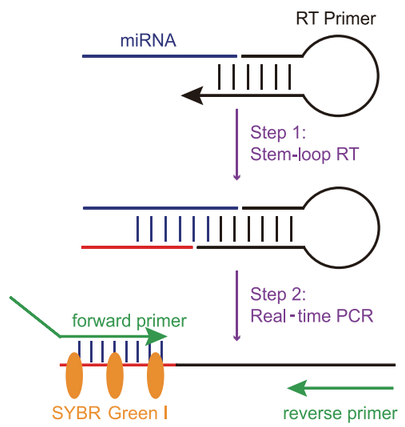
- **Heat-labile DNase, more thorough inactivation, more stable cDNA storage for a long time**
- **Genomic DNA elimination and reverse transcription can be simultaneously completed in one step**
- **Ready-to-use SuperMix**

Simply add template RNA for reverse transcription in 15 minutes

miRNA Reverse Transcription

miRNA 1st Strand cDNA Synthesis Kit (by stem-loop) (#MR101)

Mechanism



Schematic of stem-loop microRNA reverse transcription and quantification

Features

- **Good linear relationship over a wide range of templates. Detects down to pg level of RNA template**
- **Suitable for microRNA reverse transcription and qPCR**
- **The primer design software is provided to make primer design more convenient**

qPCR

SYBR qPCR

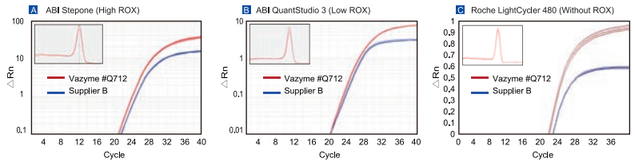
ChamQ High Sensitivity		Taq Pro High Plateau	
ChamQ	ChamQ Color	ChamQ Universal	Taq Pro Universal
Q311	Q411	Q711	Q712
Q321	Q421		
Q331	Q431		
Q341	Q441		
Sensitive	Tracer	Universal	High yield

qPCR Master Mix (SYBR)

Taq Pro Universal SYBR qPCR Master Mix (#Q712)

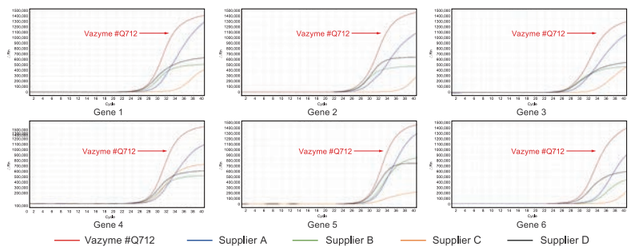
Validation Data

All platforms compatibility



Ultra-high amplification plateau value

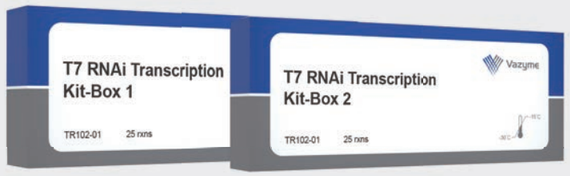
With HeLa cDNA as template, six different genes were amplified under the same reaction conditions using Q712 and SYBR qPCR reagents of other suppliers (Supplier A, Supplier B, Supplier C, Supplier D). The results show that Q712 has high sensitivity, high amplification product yield and ultra-high plateau value compared with similar products in different amplification systems.



Features

- **Ultra-high amplification plateau value & high yield**
- **Universal**
  Specific ROX Reference Dye, applicable for all qPCR instruments

In Vitro Transcription



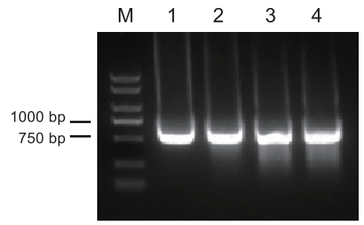
Features

- **High yield**
  Synthesize 80 μg of dsRNA in one reaction
- **Magnetic bead purification**
  Recovery efficiency ≥ 80%
- **Able to transcribe both siRNA (21 bp) and dsRNA (long fragment)**

T7 RNAi Transcription Kit (#TR102)

Validation Data

1.Excellent transcription efficiency



Agarose gel electrophoresis (2%) of 500 bp dsRNA.
M: DL2000 Plus DNA Maker.
1&3: products before and after enzymatic hydrolysis of 500 bp dsRNA, respectively (mix two templates in the same PCR tube and transcribed into double strands);
2&4: products before and after enzymatic hydrolysis of 500 bp dsRNA, respectively (templates with a double-ended promoter is annealed to double strands after transcription).

2.siRNA interferes with GFP expression

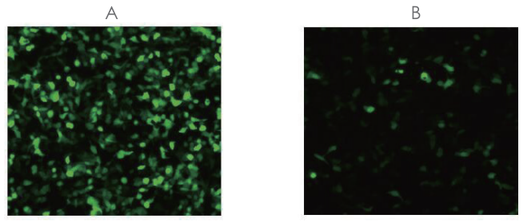


Fig. A: 293T cell (co-transfection of GFP and negative control for 24 h)
Fig. B: 293T cell (co-transfection of GFP and positive control for 24 h)

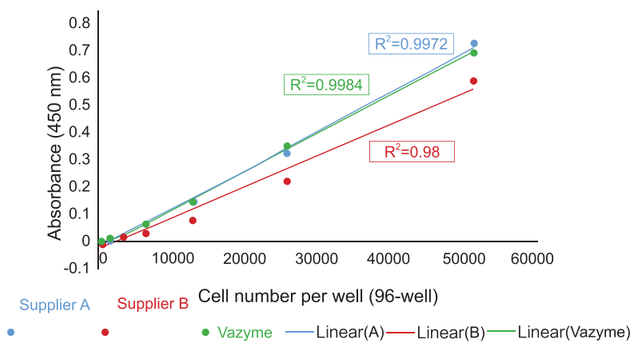
Cell Biology

Category	Series	Application	Cat.No.#
Cell	Apoptosis detection	**TUNEL method** Applicable for cell coverslips and smears; Applicable for tissue paraffin sections and frozen sections	A111
			A112
			A113
		Annexin method Applicable for suspension cells and adherent cells	A211
	Cell proliferation assay	For cell proliferation, cell viability, cytotoxicity assays	A311
	Dual-luciferase reporter gene assay	For cell signal transduction pathway, promoter/enhancer/ transcription factor research, etc.	DL101
	Mycoplasma detection and removal	Rapid detection of mycoplasma contamination in cell cultures: various suspension, adherent cultured cell; Wide compatibility with medium and serum types	D101
		Clear mycoplasma from cells, serum and medium	D103

Cell Proliferation Assay

CCK-8 Cell Counting Kit (#A311)

Validation Data

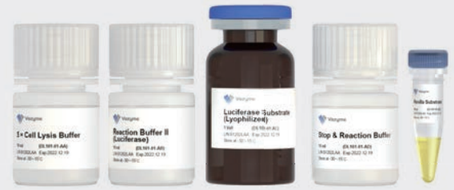


HEK293 suspension cells were serially diluted and inoculated to a 96-well plate. The cell density in each group (n = 3) is: 0, 400, 800, 1600, 3200, 6400, 12800, 25600, 51200 cells per well. CCK-8 reagents from Vazyme (#A311, green), Supplier A (blue), and Supplier B (red) were used for cell counting, respectively. The R^2 value of Vazyme #A311 is > 0.99.

Features

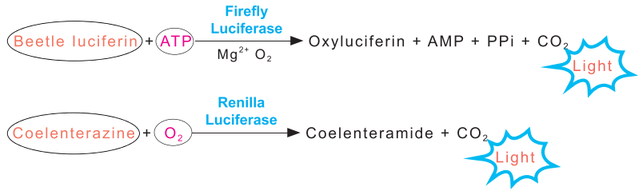
- **Ready-to-use solution**
- **High sensitivity, with excellent linear relationship and repeatability**
- **Low cytotoxicity**

Dual Luciferase Reporter Assay

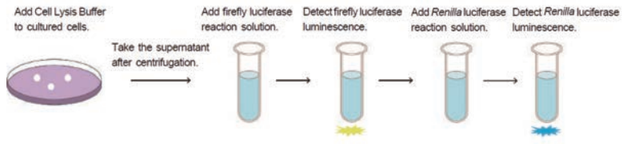


Dual Luciferase Reporter Assay Kit (#DL101)

Mechanism



Workflow



Selected Product Citations

Chen, S., Wu, J. L., Liang, Y., Tang, Y. G., Song, H. X., Wu, L. L., ... & Lu, M. (2021). Arsenic trioxide rescues structural p53 mutations through a cryptic allosteric site. Cancer cell, 39(2), 225-239. .**IF:26.602**

Lin, J. W., Tang, C., Wei, H. C., Du, B., Chen, C., Wang, M., ... & Chen, L. (2021). Genomic monitoring of SARS-CoV-2 uncovers an Nsp1 deletion variant that modulates type I interferon response. Cell host & microbe, 29(3), 489-502. **IF:15.923**

Features

- **Robust luminescent signals** Applicable for analysis of weak promoters and other genetic regulatory elements
- **Detection linear range covers up to 8 orders of magnitude (R^2 > 0.99)**
- **Detection sensitivity of 10^{-18} mol**

Mycoplasma Detection

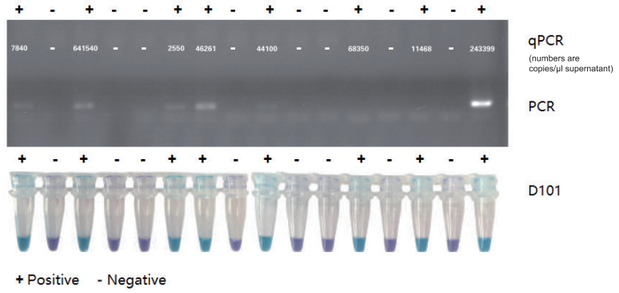
Myco-blue Mycoplasma Detector (#D101)

Applications

It is applicable for various types of suspension and adherent cells with a wide range of cell culture medium and serum compatibility, which include but do not limit to:

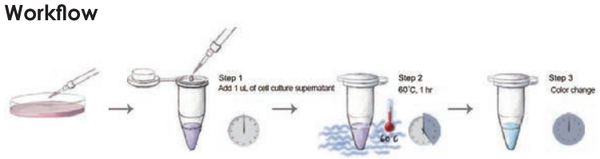
◇ Suspension cells: CHO, NS0, 293F, mouse hybridomas, Sf9, BHK21, etc.
◇ Adherent cells: Vero, MDCK, SP2/0, 293T, HepG2. HeLa, A549, MB-MDA231, L929, MEF, etc.
◇ Cell culture medium: CD FortiCHO, CDM4, Expi 293 Medium, CD Hybridoma, Grace, DMEM, 1640, F12, etc.
◇ Serum: Fetal bovine/calf serum, horse serum, Gibco KSR serum replacement, etc.

Validation Data



Randomly select 16 cell cultures, use three methods (qPCR, PCR and D101) to detect mycoplasma, and compare the results. The detection result of D101 can be observed by the obvious color change.

Workflow



Features

- Cell culture supernatant can be used directly for detection
- Results are obtained after incubation at 60℃ for 1 h and can be determined by visual observation
- Accuracy is higher than PCR method, and comparable to qPCR method
- Suitable for detection of all kinds of mycoplasma that are commonly found in cell culture

Protein Research

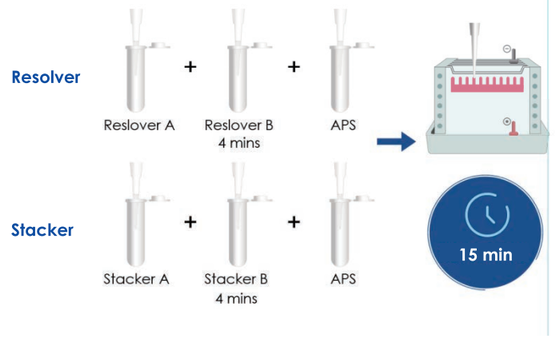
Selection Guide

Category	Series	Application	Cat.No.#
Protein	SDS-PAGE Gel Fast Preparation	Fast Preparation of Polyacrylamide Gels	E301/E302/E303/E304/E305
	BCA Protein Quantification	Protein Concentration Determination (Detergent Resistance)	E112

SDS-PAGE Gel Fast Preparation

One-Step PAGE Gel Fast Preparation Kit (#E301 - E305)

Workflow



Features

- **One-Step preparation**
  It only needs to mix ResolverA/B and Stacker A/B in pairs, then add the APS to polymerize the gel.
- **Convenient**
  The stacker is colored for easy loading and differentiation of gels of different concentrations
- **Clear bands**

Selected Product Citations

PCR

01. Zhao, Q., Wang, M., Xu, D., Zhang, Q., & Liu, W. (2015). Metabolic coupling of two small-molecule thiols programs the biosynthesis of lincomycin A. Nature, 518(7537), 115-119. IF:42.351 (Vazyme #P505)

02. Liu, C., Shen, L., Xiao, Y., Vyshedsky, D., Peng, C., Sun, X., ... & Li, C. (2021). Pollen PCP-B peptides unlock a stigma peptide–receptor kinase gating mechanism for pollination. Science, 372(6538), 171-175.IF:41.84 (Vazyme #P505)

03. Zhang, B., Wang, K. B., Wang, W., Wang, X., Liu, F., Zhu, J., ... & Ge, H. M. (2019). Enzyme-catalysed [6+ 4] cycloadditions in the biosynthesis of natural products. Nature, 568(7750), 122-126.IF:41.577 (Vazyme #P222)

04. Zhou, C., Sun, Y., Yan, R., Liu, Y., Zuo, E., Gu, C., ... & Yang, H. (2019). Off-target RNA mutation induced by DNA base editing and its elimination by mutagenesis. Nature, 571(7764), 275-278. IF:41.577 (Vazyme #PD101)

05. Yin, W., Mao, C., Luan, X., Shen, D. D., Shen, Q., Su, H., ... & Xu, H. E. (2020). Structural basis for inhibition of the RNA-dependent RNA polymerase from SARS-CoV-2 by remdesivir. Science, 368(6498), 1499-1504.IF:41.037 (Vazyme #P505)

06. Jin, S., Lin, Q., Luo, Y., Zhu, Z., Liu, G., Li, Y., ... & Gao, C. (2021). Genome-wide specificity of prime editors in plants. Nature Biotechnology, 39(10), 1292-1299.IF:36.558 (Vazyme #P222)

07. Zhang, B., Li, J., Yang, X., Wu, L., Zhang, J., Yang, Y., ... & Rao, Z. (2019). Crystal structures of membrane transporter MmpL3, an anti-TB drug target. Cell, 176(3), 636-648..IF:36.216 (Vazyme #P505)

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Cloning/Mutagenesis

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02. Ge, J., Li, W., Zhao, Q., Li, N., Chen, M., Zhi, P., ... & Yang, M. (2015). Architecture of the mammalian mechanosensitive Piezo1 IF:42.351 (Vazyme #C112)

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09. Zhuang, Y., Xu, P., Mao, C., Wang, L., Krumm, B., Zhou, X. E., ... & Xu, H. E. (2021). Structural insights into the human D1 and D2 dopamine receptor signaling complexes. Cell, 184(4), 931-942. IF:38.63 (Vazyme #C112)

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32. Zhang, X., Chen, L., Zhu, B., Wang, L., Chen, C., Hong, M., ... & Li, D. (2020). Increasing the efficiency and targeting range of cytidine base editors through fusion of a single-stranded DNA-binding protein domain. Nature Cell Biology, 22(6), 740-750.IF:17.728 (Vazyme #C113)

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