Molecular Diagnosis

Product List

PCR

DNA Polymerase

Product Name	Size	Cat.No.#	Price (USD)
Taq HS DNA Polymerase	500 U / 1000 U / 5000 U (5 U/μl)	P132-d1/d2/d3	96/178/812
AceTaq DNA Polymerase	250 U	P401-MD1	116
Taq Pro Multiplex DNA Polymerase (High sensitivity)	200 rxn /1000 rxn (25 μl/rxn)	PM201-01/02	181/725
Taq Pro Multiplex DNA Polymerase (High specificity)	200 rxn /1000 rxn (25 μl/rxn)	PM202-01/02	181/725

PCR Related

Product Name	Size	Cat.No.#	Price (USD)
Champagne Taq antibody	100 μl (5 U/μl)	P121-01	145

Reverse Transcription

Reverse Transcriptase

Product Name	Size	Cat.No.#	Price (USD)
HiScript II Reverse Transcriptase	2000 U / 10000 U	R201-01/02	38/181
HiScript III Reverse Transcriptase	10000 U	R302-01	145

Reverse transcription related

Product Name	Size	Cat.No.#	Price (USD)
Murine RNase Inhibitor	2000 U/ 10000 U / 20000 U	R301-01/02/03	40/185/326

qPCR

qPCR Master Mix (Probe)

Product Name	Size	Cat.No.#	Price (USD)
AceQ qPCR Probe Master Mix	500 rxn / 2,500 rxn (20 μl/rxn)	Q112-02/03	241/1087
AceQ Probe Master Mix	500 rxn / 2,500 rxn (20 μl/rxn)	Q113-EN01/ EN02/EN03	285/1268
AceQ Universal Probe Master Mix V2	500 rxn / 2,500 rxn (20 μl/rxn)	Q513-EN01/ EN02/EN03	325/1449
ChamQ Geno-SNP Probe Master Mix	500 rxn / 2,500 rxn (20 μl/rxn)	Q811-02/03	311/1449
Taq Pro HighGC Multiple Probe qPCR Mix	100 rxn / 500 rxn /2500 rxn (20 μl/rxn)	QN211-EN01/ EN02/EN03	82/410/1812
Taq Pro Multiple Probe qPCR Mix	100 rxn / 500 rxn /2500 rxn (20 μl/rxn)	QN213-EN01/ EN02/EN03	98/491/2174

One-Step series

One-Step RT-PCR Mix

Product Name	Size	Cat.No.#	Price (USD)
HiScript II One Step RT-PCR Kit	50 rxn (50 μl/rxn)	P611-01	217
HiScript II One Step RT-PCR Kit (Dye Plus)	50 rxn (50 μl/rxn)	P612-01	217

One-Step RT-qPCR Mix

Product Name	Size	Cat.No.#	Price (USD)
HiScript III One Step qRT-PCR Probe Kit	100 rxn/1000rxn /5000 rxn (30 μl/rxn)	Q225-EN01/ EN02/EN03	188/1420/6522
AccurSTART One Step RT-qPCR Probe Kit (FOR FAST)	200 rxn/1000 rxn/10000 rxn (20 μl/rxn)	Q231-EN01/ EN02/EN03	464/1594/14928

One-Step RT-qPCR Mix (one tube)

Product Name	Size	Cat.No.#	Price (USD)
HiScript III One Step qRT-PCR Probe 5x Master Mix	100 rxn/1000 rxn/10000 rxn (20 μl/rxn)	Q611-EN01/ EN02/EN03	217/1812/15217
AccurSTART One Step RT-qPCR Super PreMix (ONE TUBE)	200 rxn/1000 rxn/10000 rxn (20 μl/ rxn)	Q621-EN01/ EN02/EN03	522/2029/17391

Animal Detection

Product Name	Size	Cat.No.#	Price (USD)
Animal Detection Probe Master Mix	400 rxn/ 800 rxn (25 μl/rxn)	QV110-EN01/EN02	260/464
Animal Detection Probe qPCR Super PreMix	400 rxn/ 800 rxn (25 μl/rxn)	QV114-EN01/EN02	320/576

Product Introduction

PCR

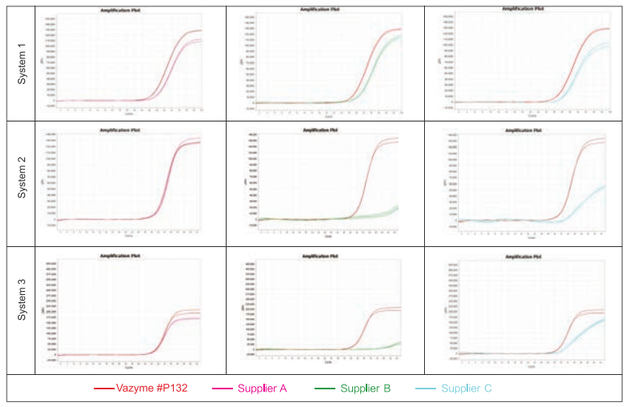
Selection Guide

Applications	Features	Applicable for	Products
DNA Polymerase	Taq HS DNA Polymerase	Hot-start DNA polymerase, suitable for various hot-start PCR and qPCR reactions based on Taq DNA polymerase	P132
	AceTaq DNA Polymerase	Chemically modified Taq DNA Polymerase, compatible with most existing PCR protocols	P401-MD1
	Taq Pro Multiplex DNA Polymerase (High sensitivity)	Multiplex PCR amplification with DNA as a template; detection and typing of pathogens; molecular hybridization detection, etc.	PM201
	Taq Pro Multiplex DNA Polymerase (High specificity)		PM202
PCR Related	Champagne Taq antibody	Inhibits the activity of DNA polymerase when combined with Taq enzyme	P121

Taq HS DNA polymerase (#P132)

Validation Data

Taq HS DNA polymerase (Vazyme #P132) together with other reagents of Brand A, B and C was performed amplification experiments under three different systems. The result shows that the amplification sensitivity and plateau phase of P132 are better than those of other brands' reagents.



Features

- **Excellent amplification curve and amplification plateau phase**
- **Superior stability**

Reverse Transcription

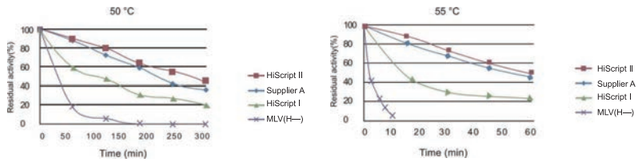
Selection Guide

Series	Product Name	Application	Cat.No.#
Reverse Transcriptase	HiScript II Reverse Transcriptase	Applicable for reverse transcription of animal, plant and microbial RNA	R201
	HiScript III Reverse Transcriptase		R302
Reverse Transcription related	Murine RNase Inhibitor	Used in where RNase interference may exist to avoid RNA degradation	R301

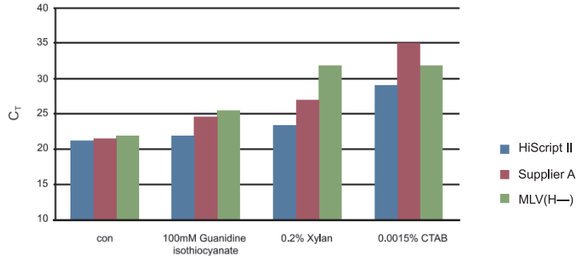
HiScript II Reverse Transcriptase (#R201)

Validation Data

The HiScript II Reverse Transcriptase (Vazyme #R201) was stored at 50˚C and 55˚C . The half-life of R201 exceeded four hours at 50˚C , and the enzyme activity of R201 remained stable for a longer time compared with other products.



Reverse transcription was performed with different enzymes using 1 μg total RNA of HeLa as a template, and different concentrations of various reaction inhibitors were added to the system. 1 μl cDNA was used as template to amplify the human B2M gene and the C_T values under various conditions were compared. A smaller C_T value represents a higher reverse transcription efficiency, that is, a higher impurity tolerance. It can be seen from the figure R201 has greater reverse transcription efficiency and tolerance to impurities.

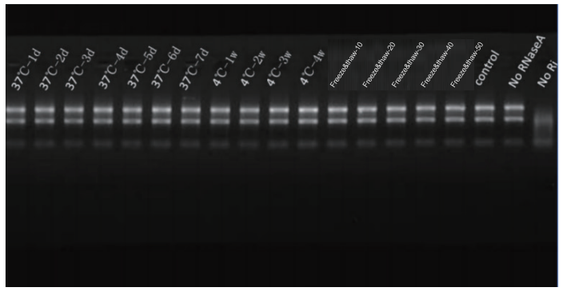


Features

- **Higher thermal stability**
- **Strong impurity tolerance**
- **Great sensitivity**

Murine RNase Inhibitor (#R301)

Test the performance of Murine RNase Inhibitor (R301) by subjecting the products to agarose gel electrophoresis after reaction at 37˚C for 15 min in a PCR instrument.



Picture 1. Electropherogram

High purity E. coli soluble expression, No RNase residue and compatible with RT-PCR/qPCR.

The performance of Murine RNase Inhibitor (R301) is still stable after the treatment of 4˚C acceleration for 4 weeks, 37˚C acceleration for 7days, 50 times freeze-thaw.

Features

- **Excellent storage stability**

qPCR

Selection Guide

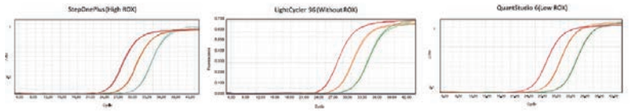
Series	Product Name	Application	Cat.No.#
qPCR Master Mix (Probe)	AceQ qPCR Probe Master Mix	Suitable for DNA amplification from various type of templates such as genomic DNA, cDNA, plasmid DNA and λDNA.	Q112
	AceQ Probe Master Mix		Q113-EN
	AceQ Universal Probe Master Mix V2		Q513-EN
	ChamQ Geno-SNP Probe Master Mix		Q811
	Taq Pro HighGC Multiple Probe qPCR Mix	Suitable for probe based qPCR detection of animal, plant and microbial DNA.	QN211-EN
	Taq Pro Multiple Probe qPCR Mix		QN213-EN

AceQ Universal Probe Master Mix V2 (#Q513-EN)

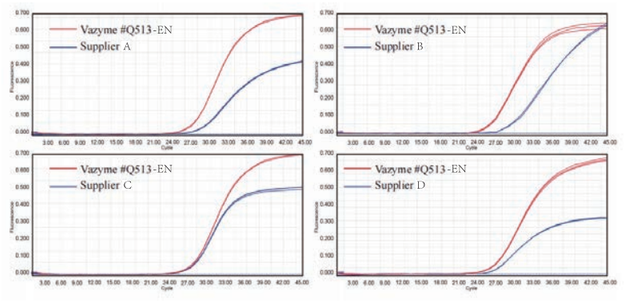
Validation Data

Perform the qPCR experiments on different instruments (including StepOnePlus, LightCycler 96 and QuantStudio 6) using AceQ Universal Probe Master Mix V2.

The result shows that Vazyme #Q513-EN is applicable for almost all qPCR instruments.



AceQ Universal Probe Master Mix V2 (Vazyme #Q513-EN) master mix and other brands' qPCR reagents were used to amplify the DPYD gene under the same reaction conditions. The results show that Vazyme #Q513-EN master mix has superior amplification sensitivity compared to similar products.



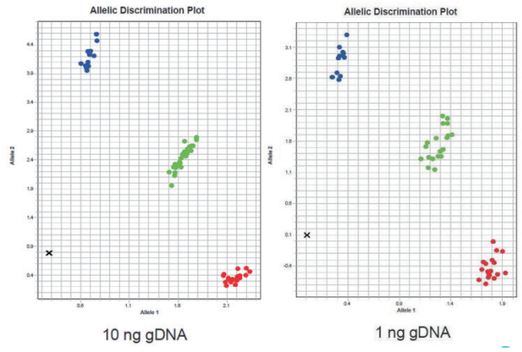
Features

- **Excellent amplification sensitivity**
- **Excellent linear relationship over a large range of input amount of template.**
- **Suitable for the detection of single-copy templates.**
- **Universal: applicable for almost all qPCR instruments.**

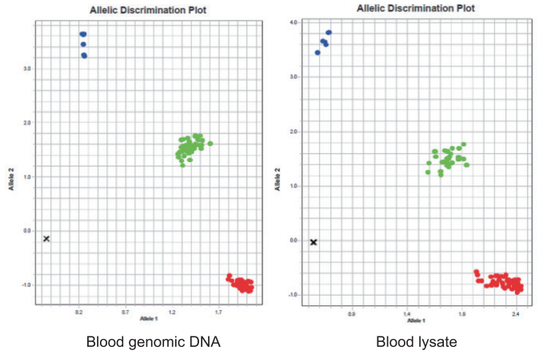
ChamQ Geno-SNP Probe Master Mix (#Q811)

Validation Data

Flexible input amounts.



Support direct genotyping with blood lysate.



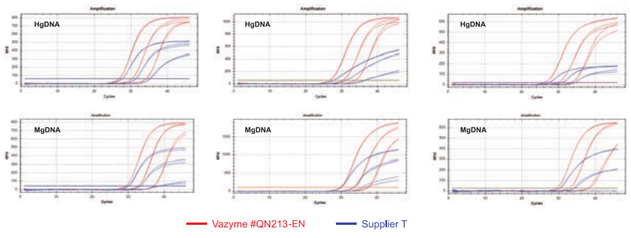
Features

- Compatible with 1 ng - 10 ng of input genomic DNA.
- Accurate genotyping of SNP sites with GC-content of 25% - 73%.
- Blood lysate can be directly used as a template for SNP genotyping, with no need for blood genomic DNA extraction.

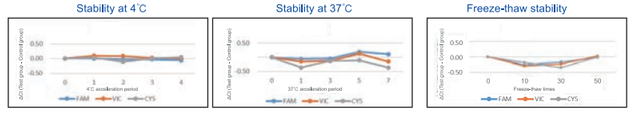
Taq Pro Multiple Probe qPCR Mix (#QN213-EN)

Validation Data

Use Vazyme #QN213-EN and supplier T to perform qPCR amplification experiments under different types of templates in different systems, and compare the amplification performance. The results show that Vazyme #QN213-EN performs better than Brand T in sensitivity and plateau phase in the FAM/VIC/CY5 channels.



After accelerated destruction experiments, Vazyme #QN213-EN still maintains good amplification performance.



Features

- Superior amplification performance
- Superior stability

One-Step series

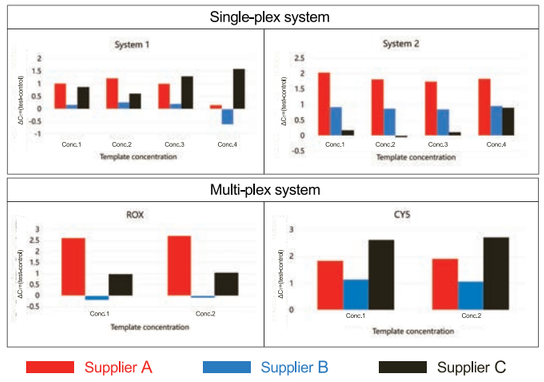
Selection Guide

Series	Product Name	Application	Cat.No.#
One-Step RT-PCR Mix	HiScript II One Step RT-PCR Kit	RT-PCR reagents, applicable for amplification reaction of animal, plant and microbial DNA.	P611
	HiScript II One Step RT-PCR Kit (Dye Plus)		P612
One-Step RT-qPCR Mix	HiScript III One Step qRT-PCR Probe Kit	Suitable for detection of various RNA nucleic acids of animals, plants and microorganisms (viruses, etc.)	Q225-EN
	AccurSTART One Step RT-qPCR Probe Kit (FOR FAST)		Q231-EN
One-Step RT-qPCR Mix (one tube)	HiScript III One Step qRT-PCR Probe 5x Master Mix		Q611-EN
	AccurSTART One Step RT-qPCR Super PreMix (ONE TUBE)		Q621-EN

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

Validation Data

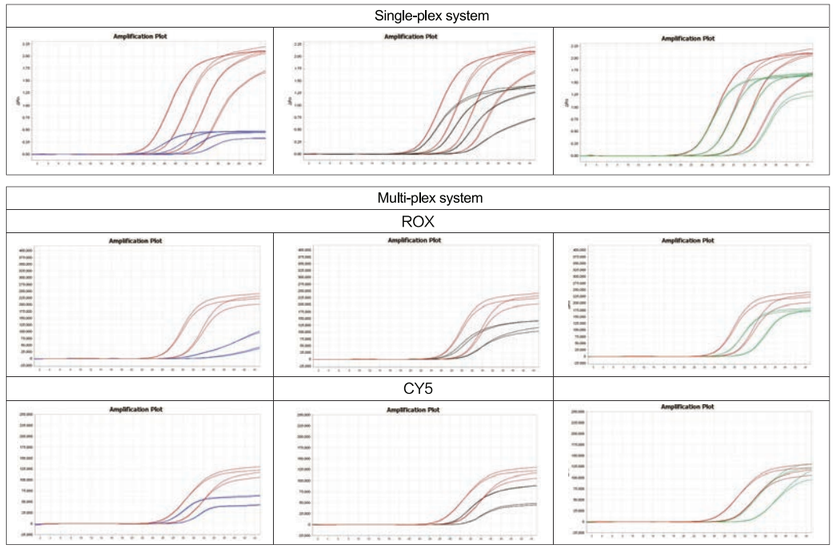
Taking Vazyme #Q225-EN as the control group and other brands' qRT-PCR reagents as the test group, detect and amplify the viral RNA under the same reaction conditions, and calculate the ΔC_T. The results show that the overall amplification sensitivity of Q225-EN is better than that of the test reagents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



Features

- **High sensitivity**
- **Better amplification line and plateau phase**
- **Great storage stability**

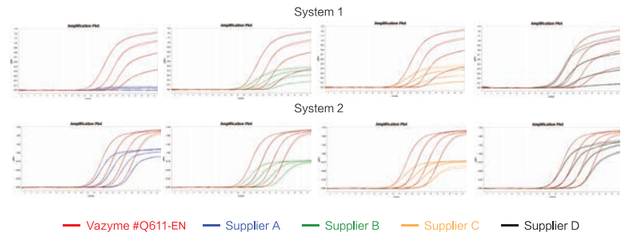
Perform amplification experiments using Vazyme #Q225-EN and other brands' qRT-PCR reagents. The results show that Q225-EN performs better than other brands in amplification sensitivity and plateau phase in both single-plex and multi-plex systems.



HiScript III One Step qRT-PCR Probe 5 × Master Mix (#Q611-EN)

Validation Data

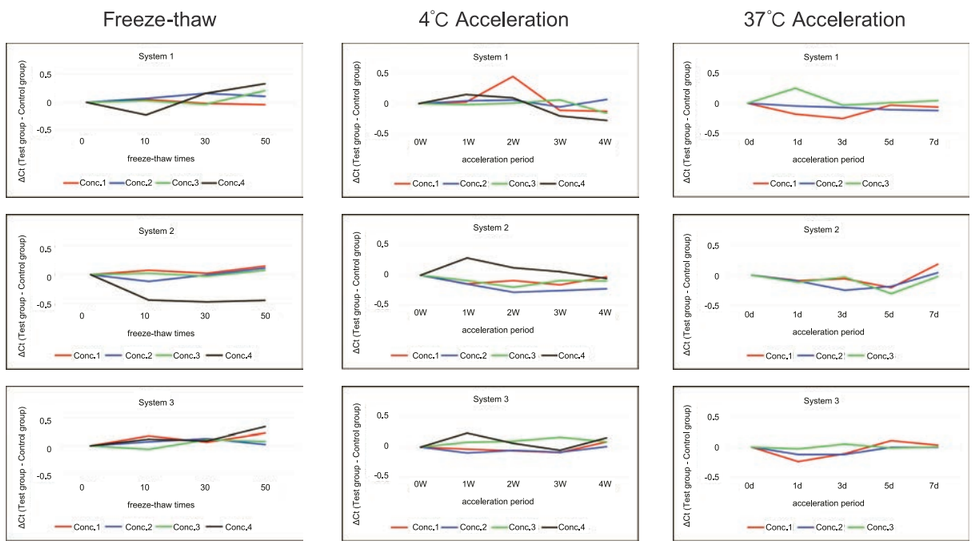
Different types of templates were serially diluted, and the diluted templates were amplified using Vazyme #Q611-EN and qRT-PCR amplification reagents from Supplier A, Supplier B, Supplier C, and Supplier D. Compare the sensitivity, plateau phase, and amplification curves under the same conditions. The results show that Vazyme #Q611-EN has better amplification performance in terms of the balance of high and low concentration template and better amplification performance.



Features

- **Excellent balance of high and low concentration template amplification**
- **Superior storage stability**

Compare the performance of Vazyme #Q611-EN before and after the treatment of freeze-thaw, 4℃ acceleration, 37℃ acceleration. The results show that the ΔC_T of treatment group and the control group is within ±0.5, the amplification curve is a standard "S" shape, and the difference of amplification platform is less than 10%, indicating that Vazyme #Q611-EN has superior storage stability.



Animal Detection

Selection Guide

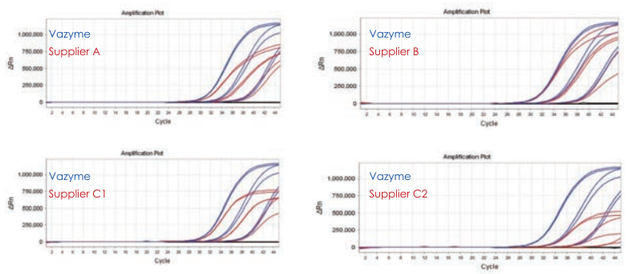
Product Name	Application	Cat.No.#
Animal Detection Probe Master Mix	Suitable for highly sensitive animal disease detection	QV110-EN
Animal Detection Probe qPCR Super PreMix	High Sensitivity One-Tube qPCR Mix	QV114-EN

Animal Detection Probe Master Mix (#QV110-EN)

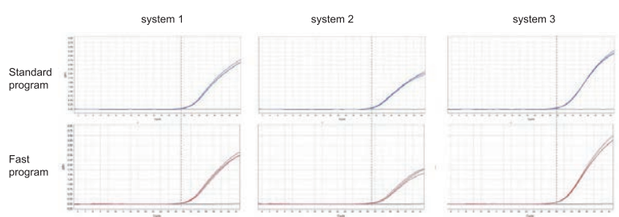
Validation Data

Excellent amplification sensitivity and compatibility.

African swine fever virus DNA was used as a template for three 10-fold gradient dilution. Animal Detection Probe Master Mix (Vazyme #QV110-EN) and other brand probe qPCR reagents (from A/B/C supplier) were used to detect the target genes in each dilution gradient. Vazyme #QV110-EN reagent shows excellent performance, when multiple systems are tested under the same reaction conditions. The system test results as follow.



Compatibility for various real-time cyclers



Features

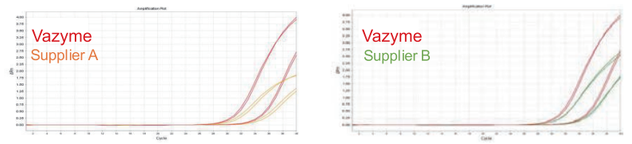
- **Animal Detection Probe Master Mix is a specialized master mix for probe qPCR to detect African swine fever virus (ASFV).**
- **Excellent sensitivity: This master mix utilizes an upgraded hot start Taq DNA polymerase with a carefully optimized buffer to increase detection sensitivity for low-concentration templates.**
- **Compatibility for various real-time cyclers: Test results within 40 minutes, compatible with fast program. Because the 50x ROX reference dye is individually supplied with this kit, the kit can be applied to real-time cyclers that require a passive reference dye.**

Animal Detection Probe qPCR Super PreMix (QV114-EN)

Validation Data

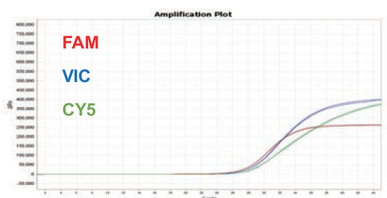
Excellent amplification sensitivity and compatibility.

African swine fever virus DNA was used as a template for two 10-fold gradient dilution. Animal Detection Probe Master Mix (Vazyme #QV114-EN) and other brand probe qPCR reagents (from A/B supplier) were used to detect the target genes in each dilution gradient. Vazyme #QV114-EN reagent shows excellent performance, when multiple systems are tested under the same reaction conditions. The system test results as follow.



Compatible with multiple reaction systems

African swine fever virus DNA was used as a template. Animal Detection Probe Master Mix (Vazyme #QV114-EN) were used to detect the target genes. The results show that Vazyme #QV114-EN is compatible with multiple system expansion.



Features

- **Animal Detection Probe Super Premix is a specialized master mix for probe qPCR to detect African swine fever virus (ASFV).**
- **Excellent sensitivity: This master mix utilizes an upgraded hot start Taq DNA polymerase with a carefully optimized buffer to increase detection sensitivity for low-concentration templates.**
- **Compatibility for various real-time cyclers: Test results within 40 minutes, compatible with fast program. Because the 50x ROX reference dye is individually supplied with this kit, the kit can be applied to real-time cyclers that require a passive reference dye.**
- **Convenient and quick: Support primer probe system fully premixed.**