TIAN LONG

Porcine Reproductive and Respiratory Syndrome (PRRS), commonly known as Blue Ear Disease, is a widespread infectious disease in pigs, characterized by two major syndromes: reproductive failure in sows and respiratory illness in piglets. Although mortality can be high, some infected animals may remain asymptomatic. Notably, the "blue ear" appearance, resulting from restricted blood circulation, is only a transient symptom.
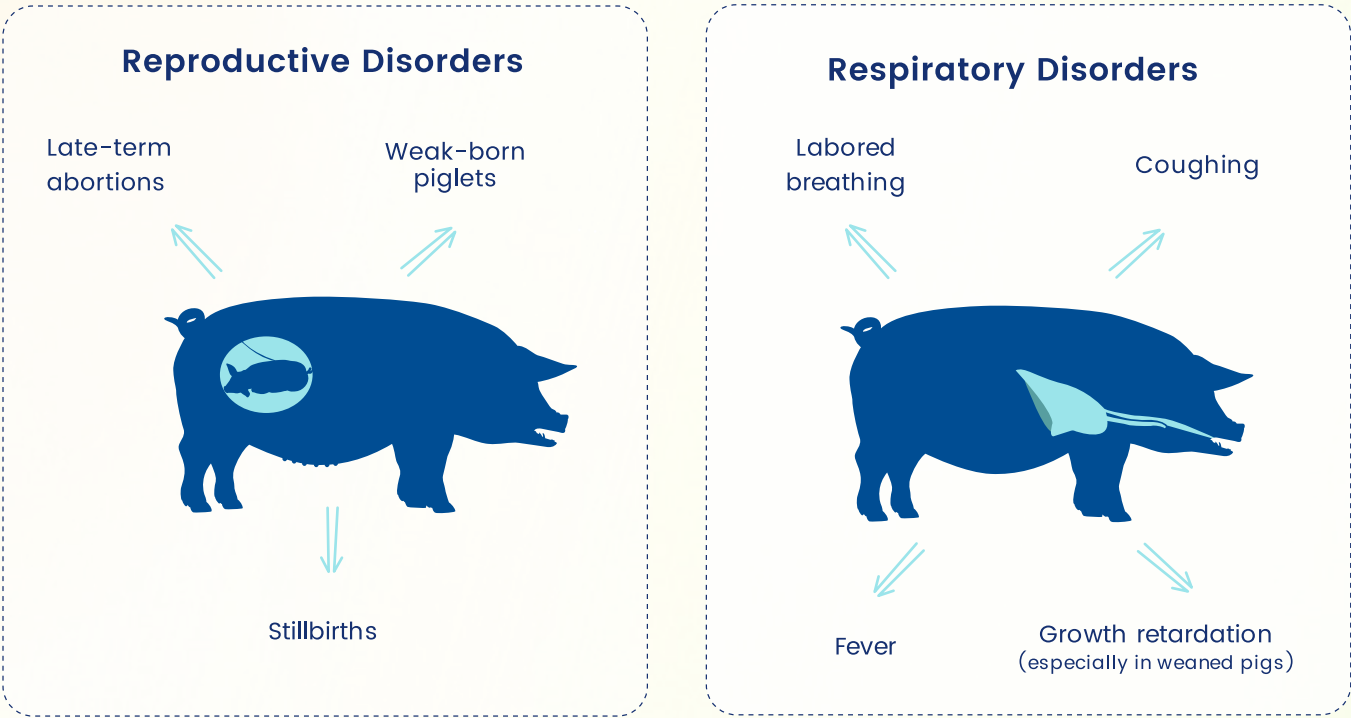
PRRS is one of the most economically devastating diseases affecting the global swine industry. It is classified into two major genotypes: the European type (PRRSV-1) and the North American type (PRRSV-2). The virus has now spread to nearly every region where pigs are raised.

Tianlong provides a reliable detection solution for the rapid and accurate identification of PRRSV. Our portfolio covers full genotyping differentiation solutions, highly pathogenic strains, and major emerging variants.

ABOUT PRRSV

Porcine Reproductive and Respiratory Syndrome Virus (PRRSV)		
Genotypes	PRRSV-1 (European type)	PRRSV-2 (North American type)
Also Known As	Type 1	Type 2
Prevalence	Europe, parts of Asia	North America, Asia, South America
Notable Strains	Lelystad virus	HP-PRRSV; NADC30-like
Pathogenicity	Generally moderate	Higher (e.g., HP-PRRSV)

KEY SYMPTOMS

Reproductive Disorders

Late-term abortions

Weak-born piglets

Stillbirths

Respiratory Disorders

Labored breathing

Coughing

Fever

Growth retardation (especially in weaned pigs)

Porcine Reproductive and Respiratory Syndrome Virus (PRRSV) Detection Solution

FEATURES

Comprehensive Coverage
Providing a wide product portfolio for qualitative detection of PRRSV covering full genotyping differentiation, highly pathogenic strains, and major emerging variants

Various Specimen
Compatible with multiple sample types, including whole blood, serum, tissue, nasal swabs, saliva, and cell culture supernatants

Real-time RT-PCR based PRRSV detection
Providing a rapid test solution that detects PRRSV with a high degree of sensitivity and specificity

High Precision
The precision values of intra-assay and inter-assay Ct values were all <5%

User-Friendly
Compatible with mainstream PCR instruments

DATA INTERPRETATION

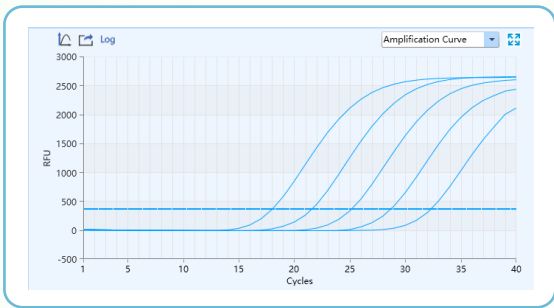Figure 1: PRRSV (NA) amplification curve in gradient concentration

Figure 2: PRRSV (NA) repetitive amplification curve in high and low concentrations
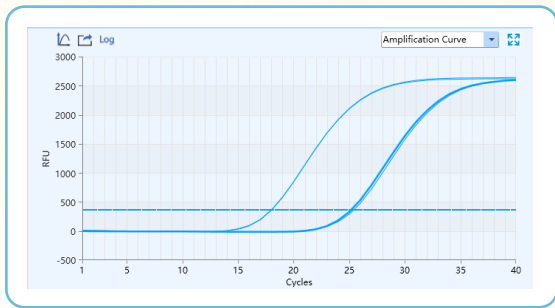

Figure 3: PRRSV Genotyping (NA/EU/HP) amplification curve in gradient concentration
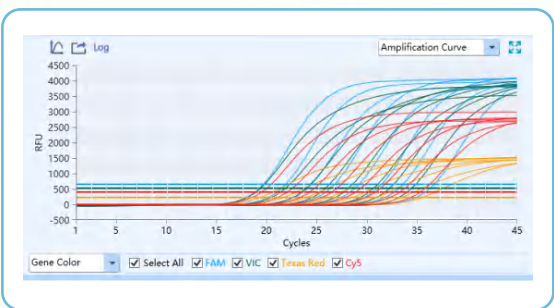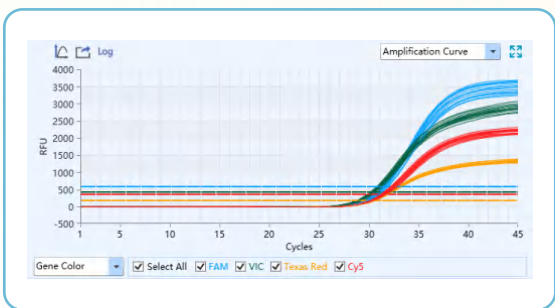

Figure 4: PRRSV Genotyping (NA/EU/HP) repetitive amplification curve in high concentrations

ORDERING INFORMATION

Cat.No	Product Name	Target Pathogen	Remark	Specification
P704H	PRRSV Genotyping (NA/EU/HP) Nucleic Acid Detection Kit (Fluorescence PCR Method)	PRRSV-1 PRRSV-2 HP-PRRSV	Genotyping Differentiation	50T/Kit
P632H	PRRSV North Ameica Genotype Nucleic Acid Detection Kit (Fluorescence PCR Method)	PRRSV-2	Genotype Detection	50T/Kit
P661H	PRRSV Highly Pathogenic Nucleic Acid Detection Kit (Fluorescence PCR Method)	HP-PRRSV strains (PRRSV-2)	Strain Detection	50T/Kit
P668H	PRRSV NADC30-Like Nucleic Acid Detection Kit (Fluorescence PCR Method)	NADC30-like variant strains (PRRSV-2)	Variant Detection	50T/Kit

SPECIFICATIONS

Applicable Species	Swine
Specimen	Whole blood, serum, tissue, nasal swabs, saliva and cell culture supernatants
Sensitivity	500 copies/mL
Precision	<5%
Storage & Validity	-25~-15℃ for 12 months
Applicable Equipment	Compatible with mainstream PCR instruments, such as Tianlong Gentier Real-time PCR systems, Applied Biosystems™ 7500 Real-Time PCR Systems, etc.

ASSAY WORKFLOW

1 Sample Collection → **2** Nucleic Acid Extraction → **3** PCR Detection → **4** Analysis and Report