



Genomics

WHERE RESEARCH
MEETS DIAGNOSIS

BIO-HELIX 
CO., LTD.

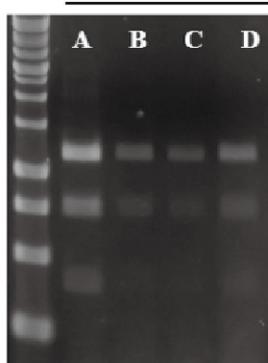
Convert RNA & Quantify Expression.

Extracted
Nucleic Acid

cDNA Synthesis

RScript™ Reverse Transcriptase

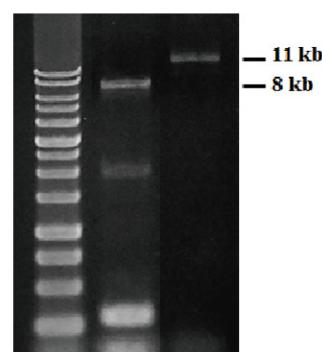
1 60 °C



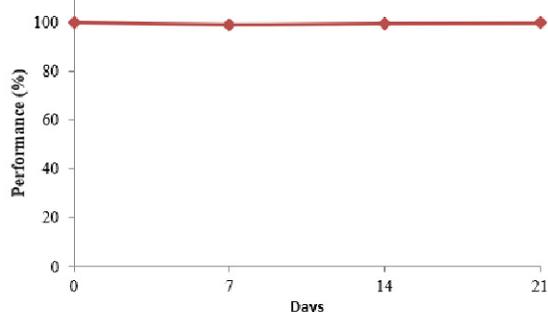
Comparison with Leading

A: Bio-Helix RScript™ #RT001
 B: Promega Improm II #A3802
 C: Thermo SuperScript III #18080093
 D: SuperScript IV #18090010

2



3 Activity



- 1 Optimal Enhanced Performance at 60°C
- 2 ssRNA Template Extension Up to 11Kb
- 3 Thermal Stability at 37°C for Over 3 Weeks

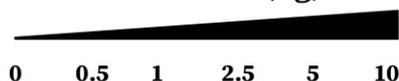
• RScript™ Reverse Transcriptase

Cat No: RT001

RNase A (ng)

- +
0 10

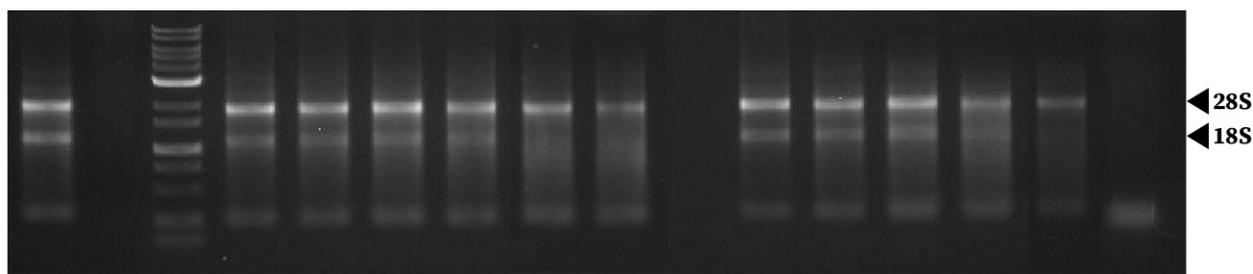
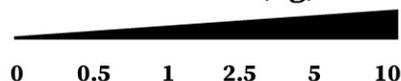
RNase A (ng)



• RScript™ cDNA Synthesis Kit

Cat No: RK001

RNase A (ng)



No
Inhibitor

BH-RI

Competitor Q

• RIBOAssure™ RNase Inhibitor 5,000U

Cat No: RI001

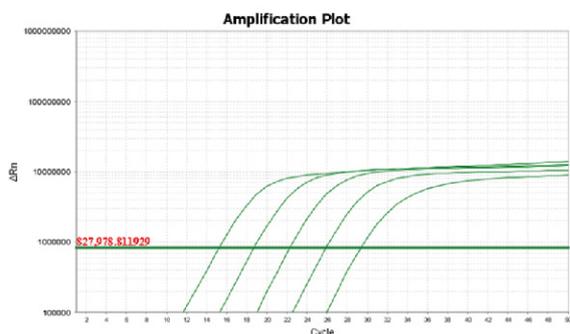
Reveal the Signal.

Real-Time PCR

All your qPCR needs !



Probe-based



RNA conc.	2pg (1.5×10^7 copy)	200fg (1.5×10^6 copy)	20fg (1.5×10^5 copy)	2fg (1.5×10^4 copy)	200ag (1.5×10^3 copy)
Ct	14.761	18.29	21.546	24.713	27.676

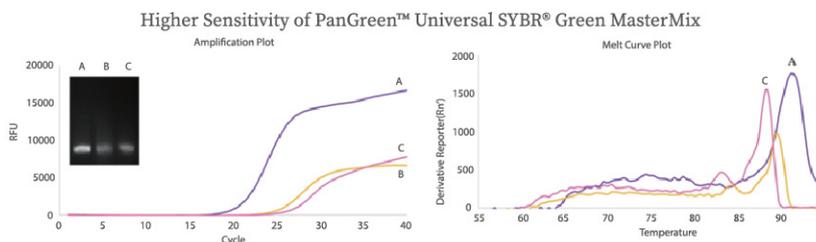
Superior Dynamic Range and Sensitivity Performance of PanProbes™ One-Step RT-qPCR MasterMix

- **Enhanced** RScript™ Reverse Transcriptase with RIBOAssure RNase™ Inhibitor
- **Optimized** for Probe-based Real-Time PCR
- **Compatible** with the Majority of qPCR Systems

• **PanProbes™ One-Step RT-qPCR Kit**
Cat No: QPR01

• **PanProbes™ qPCR MasterMix**
Cat No: QPD01

SYBR Green-based



	Ct
A Pan Green™ Universal SYBR® Green MasterMix	21.83
B RealStar Green Fast Mixture, Cat.A301-01	27.60
C iTaq™ Universal SYBR® Green Supermix, Cat.1725120	29.00

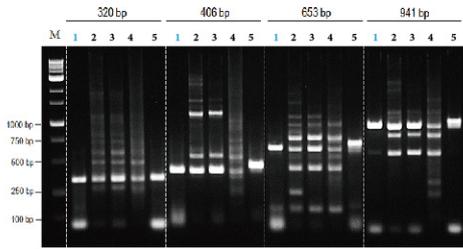
- **Enhanced** with nanoTaq™ Hot-Start DNA Polymerase
- **Maximize** Product Yield with Specific Bands
- **Compatible** with The Majority of qPCR Systems

• **PanGreen™ One-Step RT-qPCR Kit**
Cat No: QSR01

• **PanGreen™ SYBR® Green MasterMix**
Cat No: QSD01

Amplify DNA and Verify Results.

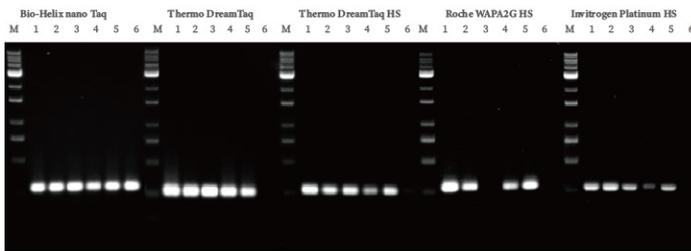
nanoTaq™ Hot-Start DNA Polymerase



Specificity Comparison

nanoTaq™ shows higher specificity and yield products with least band shifting as compared to other commercial antibody-mediated hot start polymerases.

1. Bio-Helix nanoTaq™
2. Thermo DreamTaq
3. Thermo DreamTaq HS
4. Roche WAPA2G HS
5. Invitrogen Platinum HS



PCR Inhibitor Resistance Comparison

nanoTaq™ (the left gel) shows great tolerance among all the inhibitors comparing to other Hot-Start Polymerases and confirms to synthesize up to 5kb of PCR Products

1. Control without inhibitor, 2. Bile Salt, 3. Heparin,
4. Sodium Citrate, 5. Hemin, 6. Humic Acid

• nanoTaq™ Hot-Start DNA Polymerase
Cat No : DP001

• kemoTaq Hot-Start DNA Polymerase
Cat No : DP002

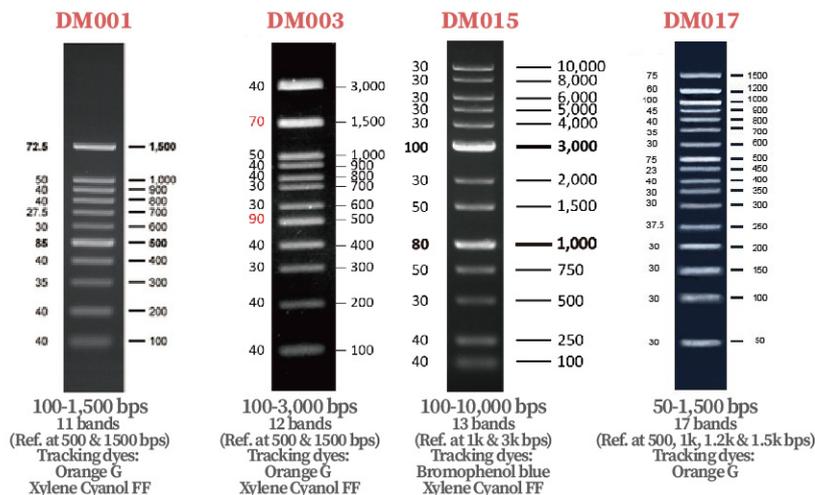
PCR Supermix

2X PCR SUPERMIX		
2X PCR SuperMix	MB200-P100	The most commonly used version
AmpFAST	MB202-P040	Faster PCR reaction time
AmpHS	MB203-P040	Hot-Start Taq included for better specificity
AmpLong	MB204-P040	Specific for Long Sequenced Target
SUPERMIX W FLUORESCENT DYE		
OmniPCR	MBA01-0100	The most commonly used version

- Convenience**
Direct loading onto the agarose gel
- Compatibility**
Use the Blue Light or UV to detect the signal
- Speed**
No post-staining processing of DNA required

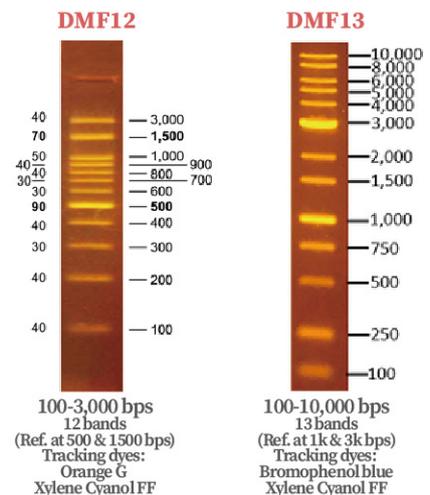


End-Point PCR



DNA Ladders

Prestained with Fluorescent Dye

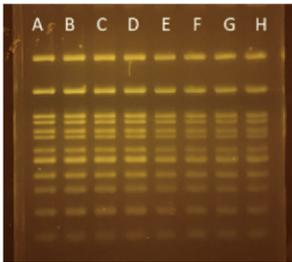


See the Evidence.

DNA/RNA Stains

Prime Juice Pre-loading Stain

Cat NO:LD011



BluPAD (470nm)



UVPAD (302nm)

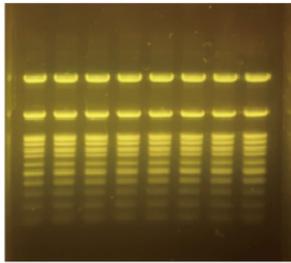
- Superior Safety & Eco-Friendly Fluorescent dye
- Unmatched Convenience & Speed
- High Performance & Versatility (low as 0.14 ng)
- 3 Tracking Dyes:

Xylene cyanol FF-TAE: 4,160 bp TBE: 3,030 bp
 Bromophenol blue: TAE: 370 bp TBE: 220 bp
 Orange G:TAE/TBE: < 50 bp

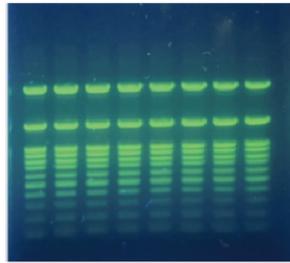


Novel Green Plus In-Gel/Post-Staining

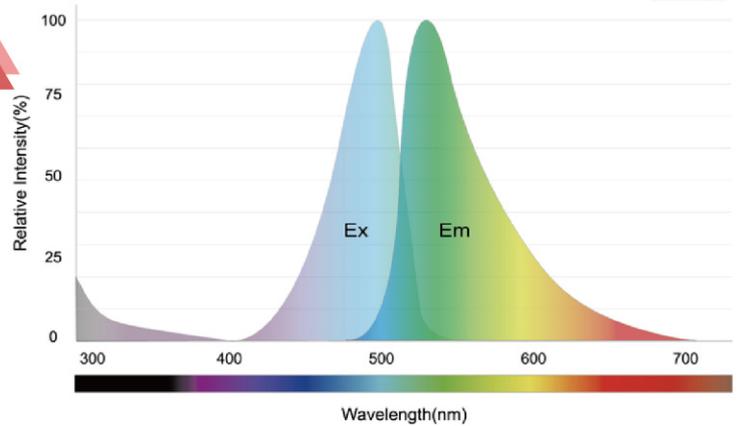
Cat NO:LD003



BluPAD (470nm)



UVPAD (302nm)



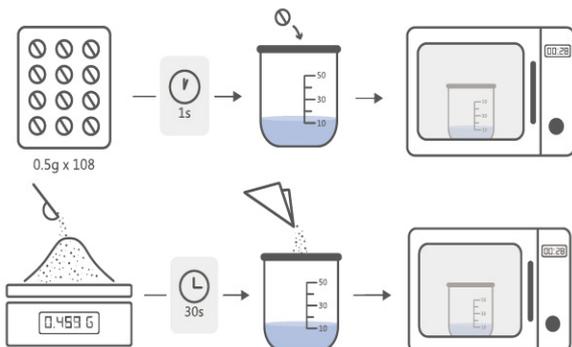
GEL ELECTROPHORESIS



Agarose Tablets ●●●●●
 Cat NO:AGT002

Agarose

Agarose Powder 
 Cat NO:MB755



- Clean, Safe, and Consistent
- Fast, Easy, and Convenient
- High clarity with low background

- Melting Temperature : 87.9°C
- Moisture Content : 5.07%
- Sulfate Content: 0.097%
- EEO:<0.12
- RNase / DNase: non-detectable



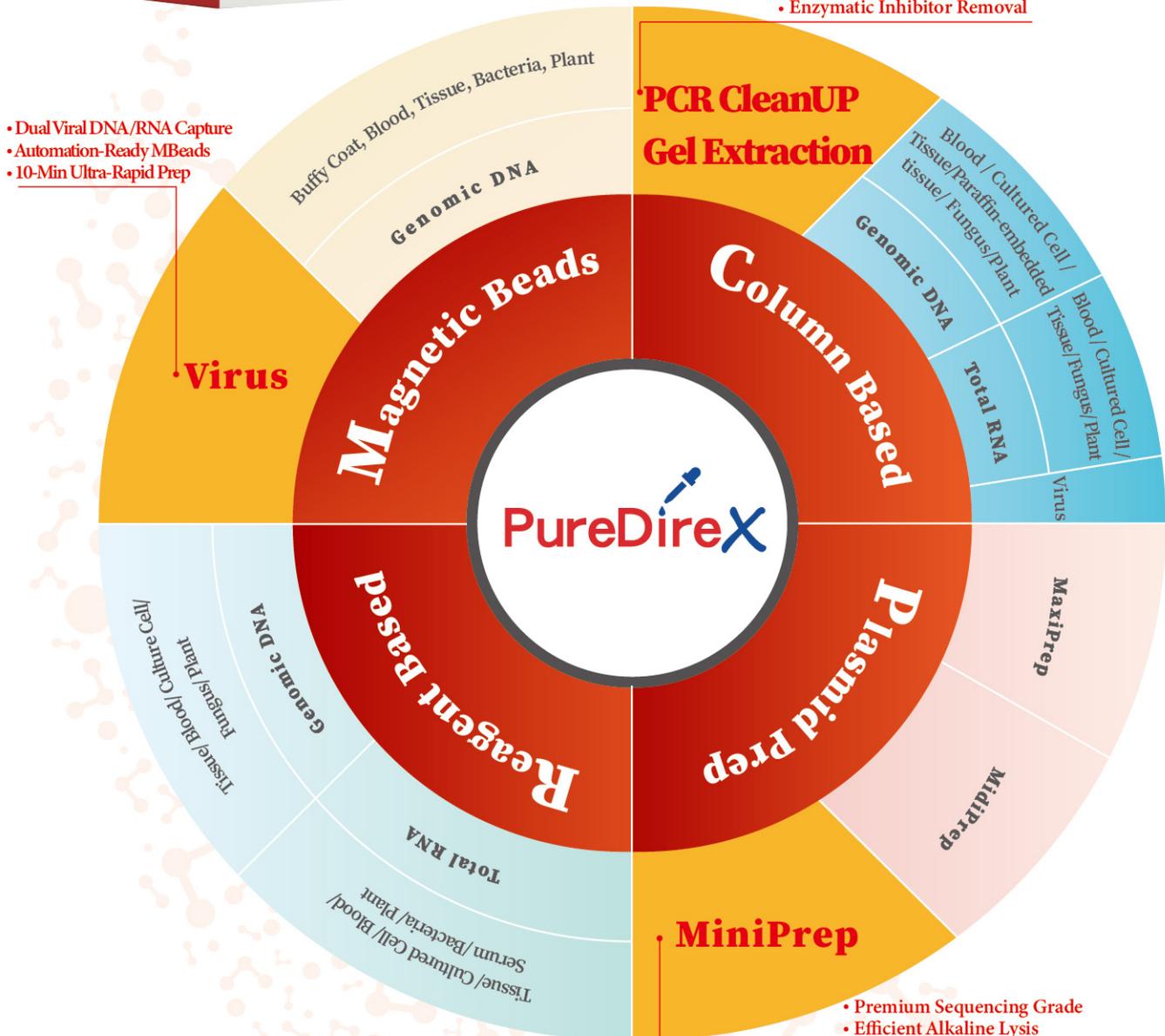
Pure Prep. Confident Science.



Precise. Rapid. Reliable. Your Purification Perfected.

Tailored for High-Throughput Excellence and Elite Downstream Results. Cut the Complexity and Focus on Your Next Breakthrough Discovery

- Dual Extraction Mode
- Broad 100bp–10kb Range
- Enzymatic Inhibitor Removal



Triple-Core Versatility

Flexible Systems for Reagent, Column, and Magnetic Beads Extraction.

Elite Material Assurance

Built with Medical-Grade Plastics and High-Specific Glass Fiber Membranes.

Molecular-Grade Precision

High-Purity Chemicals Engineered for Guaranteed Experimental Repeatability.



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