ISO13485:2016

ISO9001-2015

LongGene®

MANUFACTURER
for PCR THERMAL CYCLER
& REAL TIME qPCR SYSTEM

HANGZHOU LONGGENE SCIENTIFIC INSTRUMENTS CO., LTD.

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LongGene
Scientific Instruments

http://en.longgene.com/

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CONTENT

COMPANY PROFILE

Hangzhou LongGene Scientific Instruments Co., Ltd. established in 2001, is a leading company which specializes in instruments and reagents for life science with advanced and innovative solutions. Our products and services are globally renown, including universities and research centers in North America and Europe. We are the leader of high-end thermal cycler and qPCR system manufacturer in China.

Our senior management team has more than 25 years experience in the life science industry. "Commitment, dedication efficiency, innovation and collaboration" is our company motto. As a pioneer of the life science technology industry in China, we aim to contribute to the global gene technology industry by delivering the most advanced products and cutting-edge solutions.

Rich history in Manufacturing

Established in 2001, Hangzhou LongGene Scientific Instruments Co.,Ltd. have over 25 years of experience in designing, manufacturing, and marketing biological instruments. Our core values are "Guaranteed Quality for Life" and "Exceptional Attention to Detail".

Strong manufacturing team

LongGene senior management have over 25 years experience in product design, technological expertise & innovation, having gained valuable knowledge from the life science technology and within China.

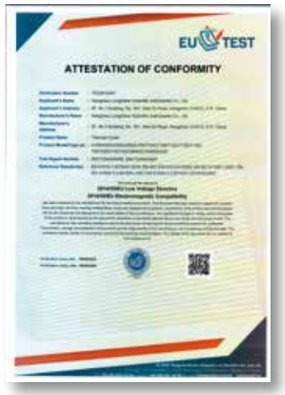
Extensive product range

Our comprehensive PCR product range will suit all clients needs, including 16 to 384 wells,gradient / multi-block and PCR thermal cycler and real-time qPCR system. With new and innovative technologies developed by our experienced R&D team.

Exceptional product quality

Each PCR undergoes 16 thorough quality control checks, ensuring only the finest quality products reach our clients. In 2005, LongGene was approved the international standard ISO9001 and European standard CE. In 2015, the CFDA also approved LongGene's products, In 2021, all models of Q series real-time qPCR system got CE-IVD certified, making them to be the most reliable and trustworthy products on the market.

HONORARY CERTIFICATE



LONG TERM CO-OPERATION WITH PREMIUM SUPPLIERS

marlow	World TOP manufacturer of Peltier Elements
MAXIM	The world-known provider of electronic components
Texas Instruments	The world-known provider of electronic components
TDK	The world-known manufacturer of industrial switching power supply
INNOLUX	The world-known manufacturer of LCD display

DEVELOPMENT HISTORY

2025	The T Series features a maximum heating/cooling rate of 10°C/Sec, setting a new milestone for conventional thermal cycler.
2024	The T Series can be upgraded to three block QT30 Real-Time qPCR system just by replacing the sample block.
2023	The QT30 Series three block Real-Time qPCR system is officially launched, becoming an important addition to the company's Real-Time qPCR product portfolio. The Q2000C Real-time PCR System has obtained the NMPA medical device registration certificate.
2022	T series multi-block thermal cycler has a new model T10/T10D with two-dimensional gradient.
2021	All models of Q series Real-time qPCR system passed CE-IVD test and obtained certificates. Portable Real-time qPCR system model Q160C was officially launched, providing more and better options for virus detection.
2020	High-throughout Real-time qPCR system Q2000 series have been launched to three models, and been exported to more than 30 countries overseas, providing high-quality and reliable testing equipment for the global fight against COVID-19.
2019	Q1000+ Real-time qPCR system was launched to the market Portable Real-time qPCR system model Q160 was successfully launched,and play an important role in African swine fever virus market.
2018	Two new members — T30D & T20D with super gradient for TalentGene series were launched successfully. All jobs for Q160 were finished & began to marketing.
2017	TalentGene series Thermal Cyclers begin to sell, T20 & T30 became the flagship product of 2017.
2016	ArtGene series added new member - A600 with six independently regulated thermal blocks to optimize a primer set, which has become the new star on the market. LongGene's first Real-Time qPCR System-Q1000 is launched to market.
2015	After two years of dedicated efforts, our company has officially obtained the Medical Device Manufacturing License and Medical Device Product Registration Certificate.
2014	MiniGene series launched in the market, LongGene Thermal Cycler Family is growing.
2011	ArtGene series adds new member - A300 Fast Gradient Thermal Cycler, boasting a ramping rate of 6°C/sec.
2010	ArtGene series released & become the main stream model on the market immediatley. ArtGene—Perfectly integrating ART Technology.
2008	L series Thermal Cycler launched in market, with 5.7" COLOR TFT graphical display.
2007	Established stable business relationships with many corporations in overseas markets, LongGene Thermal Cyclers enter North America, South America, Europe, Southeast Asia & South Africa markets.
2005	Received ISO9001:2000 certificate & CE mark.
2003	MyGene series MG96+ & MG96G released and became a best-seller domestically & internationally.
2001	Hangzhou LongGene Scientific Instruments Co., Ltd. is estabished. First model MG25+ was born.

OptimumGene™ series

Q2000 series
Real-Time qPCR System

- The new powerful Peltier technology, fast ramping rate up to 6℃/s
- T-Optical™ technology, reduce background noise, improve fluorescence signal sensitivity and signal to noise ratio
- The view angle of display could be adjusted to the best view
- 96 wells*2/4/6 channels, simultaneous detection of all wells, not in sequence
- User could view qPCR process and run PCR protocol through self-contained 10.1" TFT LCD and touch screen
- Special designed optical system for qPCR, avoiding more moving parts problems like overheat, wear and off center. Not optical fiber based, avoiding break and block by dust
- Long life LED lamps to excite fluorescence and detect with SSLP™ imaging technology
- Sample wells with temperature gradient function, convenient to optimize PCR conditions
- The drawer design of sample block, makes it easier to pick and place PCR tubes and plates
- The qPCR analysis software could be upgraded for free
- control software can be selected to control multiple instruments with one computer

The screen angle can be adjusted from 0 to 90 degrees

Sample capacity: 96 wells, white PCR tubes can be used

10.1'' TFT Full color touch screen, real-time graphical display

T-Optical™ top detection technology, greatly reduce backgroud noise

Patented drawer type sample block design, easy to place & remove sample

Model	Q2000A	Q2000B	Q2000C
Sample Block Capacity	96wells		
Reaction Volume	10-50ul (option 10-100ul)		
Tubes Option	0.1ml white color qPCR tube, strips, 96 well PCR plate, with optical flat cap, option 0.2ml tubes		
Heating & Cooling Technology	New generation Peltier technology allow 1,000,000 thermal cycles		
Control Methods	Operated via PC or self-contained touch screen on instrument		
Optical system	Innovative SSLP™ imaging technology		
Display	10.1" Color TFT LCD and Touch Screen		
Max. Number of Programs	Max.200,000 programs onboard, unlimited storage of protocols with USB flash drive		
PC Connection(Extra Option)	Remote PC control to manage 30 units across the LAN network		

	TEMPERATURE FEATURES
Block Temp.Range	0℃~105℃
Max. Heating/Cooling Rate	6℃/sec
Temp.Uniformity	≤±0.2℃
Display Resolution	0.1℃
Heat Lid Temp. Range	30℃~112℃
Gradient Range	30℃ ~ 105℃
Temp.Differential Range	0.1℃ ~ 42℃

	FLUORESCENCE DETECTION FEATURES		
Excitation	Long life LED lamps		
Detection	High-sensitivity low-light detector		
Dynamic Range	$1\text{-}10^{10}$		
Sensitivity	≥1 copy		
Calibrated Dyes at Installation	F1: FAM/SYBR Green F2: VIC/HEX/JOE/CY3/TET★(★Customizable)	F1: FAM/SYBR Green F2: VIC/HEX/JOE/CY3/TET★(★Customizable) F3: ROX/TEXAS-RED/TAMRA★(★Customizable) F4: CY5/Quasar670	F1: FAM/SYBR Green F2: VIC/HEX/JOE/CY3/TET★(★Customizable) F3: ROX/TEXAS-RED/TAMRA★(★Customizable) F4: CY5/Quasar670 F5: CY5.5 F6: Reservecl
Fluorescence Excitation Range	400~800nm		
Fluorescence Detection Range	500~800nm		
Data Export Formats	TXT, PDF, WORD, EXCEL		

	OTHER FEATURES
AC Power Supply	100 ~ 240V, 50 ~ 60Hz
Consumption	600W
Communications	USB 2.0 & LAN
Dimension（L×W×H）	334×280×365mm
Net Weight	13kg
Computer Operating Systems	Windows 10, Windows 7, Windows XP
Language	English

Optimal Design & Analysis Software

Q2000 series
Real-Time qPCR System Software

1、Connection via an ethernet cable or via router

2. Pre-calibrated optics allow you to start using the instrument immediately, no additional calibration is required

3. Quality control (QC) on data automatically, ensuring reliability of analysis results

4. Graphical display of protocols, default templates, and real-time run status

5、Simple and intuitive program, easy to use, without prior reading the user guide thoroughly

6. PCR protocals can be run via a computer network or in the stand -alone mode (using a USB flash drive)

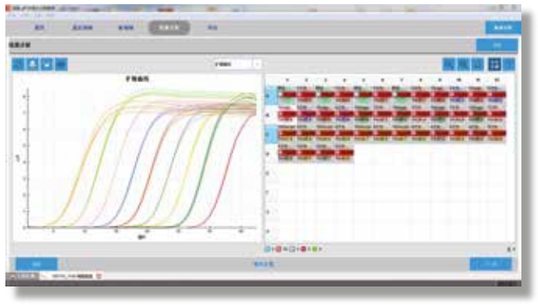
7. Real-time monitoring of amplification curve or melt curve via the 10.1'' display and touch screen

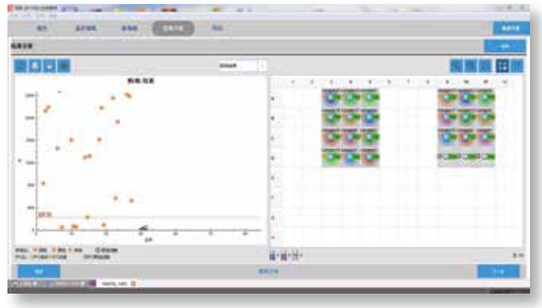
8. Intuitive qPCR plate setup

9.Thermal gradient capability with 12 columns for optimizing PCR reaction protocol

10. Protocols and plate setups can be saved as templates for future use

11. Multitasking software, able to analyze multiple experiments at the same time





12. Varieties of Data Analysis Methods are include

(1) Standard curves for quantification

(2) Melt-curve to verify product identity

(3) Relative quantification for gene expression analysis, with multiple reference genes & amplification efficiency correction

(4) Allelic discrimination (SNP Genotyping) using two allele-specific probes, with automated calling & quality-value assignment

(5)Presence/Absence(Plus/Minus)assays with/ without internal positive control (IPC) for pathogen detection

13. A variety of algorithms are included, such as auto-baseline, manual-baseline, auto-threshold, manual-threshold, amplification efficiency (E), able to streamline data analysis

14. Export results to TXT / PDF / WORD / EXCEL

15. Multi control software can be selected, that is, a computer can control up to 30 units Q2000 series qPCR system

OptimumGene™ series

QT30 series

Three in one Real-Time qPCR System

- Three 32 wells thermal cycle modules in one qPCR system featuring super flexibility and high throughout.
- Excitation and emission filters can be freely combined, and up to 21 filter combinations can be selected for each channel. This allows for a wide range of applications.
- Top fluorescence excitation and detection with white PCR tube technology, reduce background noise,improve fluorescence signal sensitivity and signal to noise ratio.
- Simultaneous detection of all PCR wells, not in sequence,make the detection speed faster, prevent instability of fluorescence signal.
- The screen angle of display could be adjusted to most comfortable operating view.
- Including standard curve quantitative, Melt-curve , Presence/Absence(Plus/Minus)assays , Allelic discrimination and Relative quantitative analysis, and optional protein dissolution curve analysis and high resolution Melting curve (HRM).
- Solid state optical system special designed for qPCR, avoiding more moving parts problems like overheat, wear and off center.Not optical fiber based,avoiding break and block it by dust.
- It has power failure protection software function, to prevent qPCR protocol failure and data loss.

10.1" TFT Full Color touch screen, with wide viewing angles

Three 32 wells blocks independently running three qPCR programs

Top fluorescence excitation and detection with white PCR tube technology, reduce background noise,improve fluorescence signal sensitivity and signal to noise ratio.

Model	QT30A	QT30B	QT30C
Sample Block	32wells*3		
Tubes Option	White color 0.1ml PCR tube, 8-strip with optical flat cap		
Heating & Cooling Technology	New generation Peltier technology allow 1,000,000 thermal cycles		
Control Methods	Operated via PC or self-contained touch screen on instrument		
Optical system	Innovative SSLP™ imaging technology		
Display	10.1" Intuitive touch screen, with adjustable angle.		

	TEMPERATURE FEATURES
Block Temp.Range	0℃~105℃
Max. Heating/Cooling Rate	8℃/s
Temperature Control Accuracy	0.02℃
Gradient Range	30℃~105℃

	FLUORESCENCE DETECTION FEATURES		
Excitation	Long life LED lamps		
Detection	High-sensitivity low-light detector		
Dynamic Range	$1\text{-}10^{10}$		
Sensitivity	≥1 copy		
Calibrated Dyes at Installation * Customizable	F1: FAM/SYBR Green F2: VIC/HEX/JOE/CY3/TET*	F1: FAM/SYBR Green F2: VIC/HEX/JOE/CY3/TET* F3: ROX/TEXAS-RED/TAMRA* F4: CY5/Quasar670	F1: FAM/SYBR Green F2: VIC/HEX/JOE/CY3/TET* F3: ROX/TEXAS-RED/TAMRA* F4: CY5/Quasar670 F5: CY5.5 F6: Reserved
Fluorescence Excitation Range	400~800nm		
Fluorescence Detection Range	500~800nm		
Data Export Formats	TXT, PDF, WORD, EXCEL		

	OTHER FEATURES
power-off protection	Automatically resume running the remaining qPCR programs after restoring power supply
AC Power Supply	100-240V, 50-60Hz
Consumption	1200W
Communications	USB2.0, WIFI
Dimension(L×W×H)	320×205×380mm
Net Weight	15.6Kg
Computer Operating Systems	Windows 11, Windows 10, Windows 7
Language	English

QT30 series
Three in one Real-Time qPCR System

1. qPCR protocals can be run via a computer network or in the stand -alone mode.

2. Pre-calibrated optics allow you to start using the instrument immediately, no additional calibration is required.

3. Quality control (QC) on data automatically, ensuring reliability of analysis results.

4. Graphical display of protocols, default templates, and real-time running status.

5. Simple and intuitive workflow, easy yo use, without prior reading the user guide thoroughly.

6. Real-time monitoring of amplification curve or melt curve via the large screen and adjustable view angle.

7. Temperature gradient capability with up to 24 different temperature for optimizing qPCR reaction protocol.

8. Protocols and plate setups can be saved as templates for future use.

9. Multitasking software, able to analyze multiple experiments at the same time.

10. Including varieties of Data Analysis Methods.

(1) Standard curves for quantification.

(2) Melt-curve to verify product identity.

(3) Relative quantification for gene expression analysis, with multiple reference genes & amplification efficiency correction.

(4) Allelic discrimination (SNP Genotyping) using two allele-specific probes, with automated calling & quality-value assignment.

(5) Presence/Absence (Plus/Minus) assays with/without internal positive control (IPC) for pathogen detection.

11. A variety of algorithms are included, such as auto-baseline, manual-baseline, auto-threshold, manual-threshold, amplification efficiency, able to streamline data analysis.

12. Export results to TXT / PDF / WORD / EXCEL.

OptimumGene™ series

Q1000 series
Real-Time qPCR System

- The new powerful Peltier technology, fast ramping rate up to 7℃/s
- T-Optical™ technology, reduce background noise, improve fluorescence signal sensitivity and signal to noise ratio
- Simultaneous detection of wells, not in sequence
- User could view qPCR process and run PCR protocol through self-contained 7" TFT LCD and touch screen
- Special designed optical system for qPCR, avoiding more moving parts problems like overheat, wear and off center. Not optical fiber based, avoiding break and block
- Long life LED lamps to excite fluorescence and detect with SSLP™ imaging technology
- The drawer design of sample block, makes it easier to pick and place PCR tubes and plates
- The qPCR analysis software could be upgraded for free
- In addition, multiple control software can be selected to control multiple instruments with one computer

Sample capacity 48 wells * 0.1ml,
suitable for white tube

Patented drawer type sample block design,
easy to place & remove sample

7'' TFT Full color touch screen,
real-time graphical display

T-Optical™ top detection technology,
greatly reduce backgroud noise

Model	Q1000	Q1000+
Sample Block Capacity	48 wells	
Reaction Volume	10-50ul	
Tubes Option	White color 0.1ml PCR tube, 8 Strips, with optical flat cover	
Heating & Cooling Technology	New generation Peltier technology allow 1,000,000 thermal cycles	
Control Methods	Operated via PC or self-contained touch screen on instrument	
Optical system	Innovative SSLP™ imaging technology	
Display	7" Color TFT LCD and Touch Screen	
Max. Number of Programs	Max.200,000 programs onboard, unlimited storage of protocols with USB flash drive	
PC Connection(Extra Option)	Remote PC control to manage 30 units by the LAN network	

	TEMPERATURE FEATURES
Block Temp.Range	0℃~105℃
Max. Heating/Cooling Rate	7℃/sec
Temp.Uniformity	±0.2℃
Temp.Accuracy	±0.1℃
Display Resolution	0.1℃
Heat Lid Temp. Range	30℃ ~ 112℃
Gradient Range	30℃~105℃
Temp.Differential Range	0.1℃~24℃

	FLUORESCENCE DETECTION FEATURES	
Excitation	Long life LED lamps	
Detection	High-sensitivity low-light detector	
Dynamic Range	$1\text{-}10^{10}$	
Sensitivity	≥1 copy	
Calibrated Dyes at Installation	F1: FAM/SYBR Green F2: VIC/HEX/JOE/CY3/TET★ (★Customizable)	F1: FAM/SYBR Green F2: VIC/HEX/JOE/CY3/TET★ (★Customizable) F3: ROX/TEXAS-RED/TAMRA★ (★Customizable) F4: CY5/Quasar670
Fluorescence Excitation Range	400~800nm	
Fluorescence Detection Range	500~800nm	
Data Export Formats	TXT, PDF, WORD, EXCEL	

	OTHER FEATURES
AC Power Supply	100-240V, 50-60Hz
Consumption	600W
Communications	USB 2.0 & LAN
Dimension（L×W×H）	320×205×380mm
Net Weight	8.2Kg
Computer Operating Systems	Windows 10, Windows 7, Windows XP
Language	English

Optimal™ qPCR design & Analysis software

Q1000 series
Real-Time qPCR System Software

1. Connection via an ethernet cable or via router

2. Pre-calibrated optics allow you to start using the instrument immediately, no additional calibration is required

3. Quality control (QC) on data automatically, ensuring reliability of analysis results

4. Graphical display of protocols, default templates, and real-time run status

5. Simple and intuitive program, easy to use, without prior reading the user guide thoroughly

6. PCR protocals can be run via a computer network or in the stand -alone mode (using a USB flash drive)

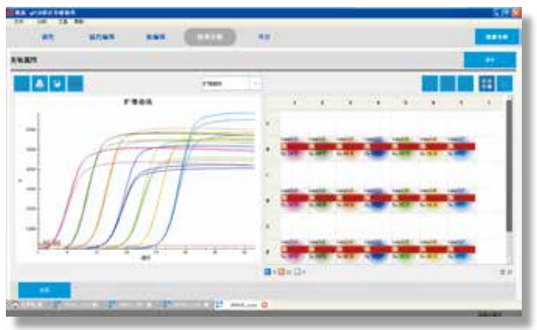
7. Real-time monitoring of amplification curve or melt curve via the 7'' display and touch screen

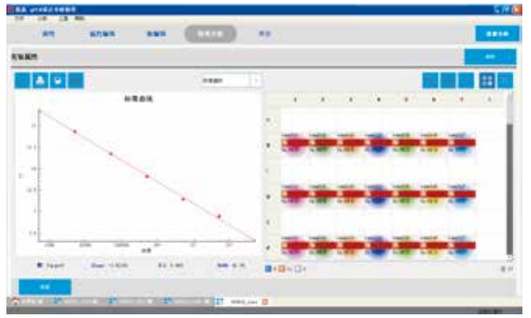
8. Intuitive qPCR plate setup

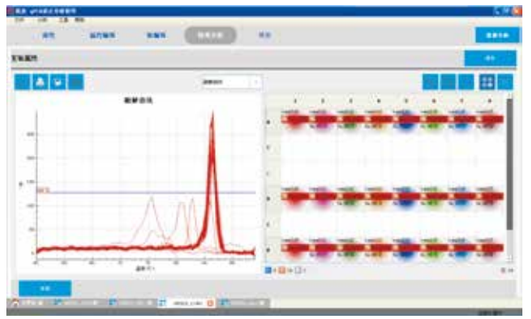
9. Thermal gradient capability for optimizing PCR reaction temperatures

10. Protocols and plate setups can be saved as templates for future use

11. Multitasking software, able to analyze multiple experiments at the same time







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(5) Presence/Absence(Plus/Minus)assays with/without internal positive control (IPC) for pathogen detection

13. A variety of algorithmsare included, such as auto-baseline, manual-baseline, auto-threshold, manual-threshold, amplification efficiency(E), able to streamline data analysis

14. Export results to TXT/PDF/WORD/EXCEL

15. Multi control software can be selected, that is, a computer can control up to 30 units Q1000 series qPCR system

OptimumGene™ series

Q160/Q160C series
Portable Real-Time qPCR System

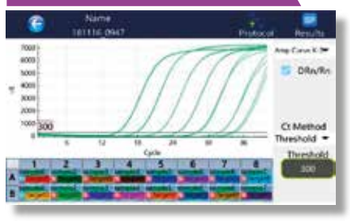
T-Optical™ top detection technology ensure white tubes could be used, which could get better result

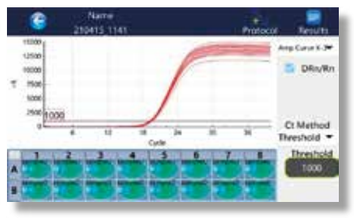
7" TFT Full Color touch screen, all operation and analysis could be done on board with no computer

Self-lock heat lid realize no evaporation

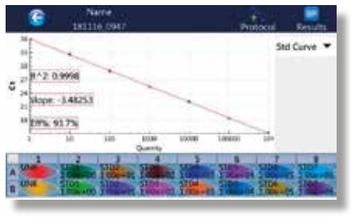
16 wells with 2/4 channels, specialize in fast quantification

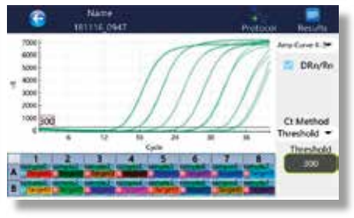
Software Function





Amplification curves, melt peak curves and standard curves could be view directly on the screen





Analysis function like automatic calculation for Ct value and Melt temperature (Tm) Value, and Negative/Positive automated determination on board

Model	Q160	Q160C
Sample Block Capacity	16 wells	
Reaction Volume	10-100ul	
Tubes Option	white 0.1ml PCR tube/8-tube strips with optical flat cap, option 0.2ml	
Heating & Cooling Technology	New generation Peltier technology allow 1,000,000 thermal cycles	
Control Methods	Built-in full operation and analysis functions, no external computer required	
Optical system	SSLP™ imaging technology	
Display	7'' Color TFT Touch Screen,Edit, run and view results at a glance	
PC Connection(Extra Option)	Remote PC control to manage no more than 30 units units across the LAN network	

	TEMPERATURE FEATURES
Block Temp.Range	4℃~100℃
Max. Heating/Cooling Rate	5℃/sec
Temp.Uniformity	±0.25℃
Temp.Accuracy	≤±0.1℃
Display Resolution	0.1℃
Heat Lid Temp.Range	30℃ ~ 112℃

	OPTICAL MODULE FEATURES	
Excitation	Long life LEDs	
Detection	High-sensitivity low-light detector	
Dynamic Range	$1\text{-}10^{10}$	
Detection Sensitivity	Detects 1 copy	
Calibrated Dyes at Installation	F1: FAM/SYBR Green F2: VIC/HEX/JOE/CY3/TET★(★Customizable)	F1: FAM/SYBR Green F2: VIC/HEX/JOE/CY3/TET★(★Customizable) F3: ROX/TEXAS-RED/TAMRA★(★Customizable) F4: CY5/Quasar670
Fluorescence Excitation Range	400~800nm	
Fluorescence Detection Range	500~800nm	
Data Export Formats	TXT, PDF, WORD, EXCEL	

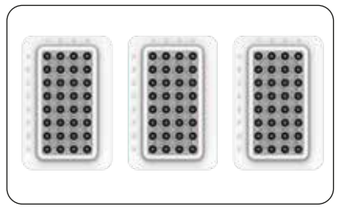
	OTHER FEATURES
Power Supply	100-240V, 50-60Hz
Consumption	200W
Communication Ports	USB 2.0 & LAN, export data via USB flash drive
Dimensions（L×W×H）	305×179×186mm
Net Weight	3.6kg
Language	English

TalentGene™ series

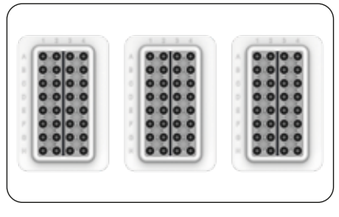
T30/T30D
Tri-block Thermal Cycler

- ◎ Three individual sample blocks allows three protocols running independently different protocols.
- ◎ New generation Peltier technology, allowing 1,000,000 thermal cycles
- ◎ Fast ramping rate more than 7.5℃/sec
- ◎ New style heat lid to lock up the lid pressure automatically, ensuring even pressure during running of protocol
- ◎ Interchangeable T-series sample block swapped in seconds without tools

T30 Sample Block Layout



T30D Sample Block Layout



Model	T30 （Tri-Block Gradient）	T30D（Tri-Block Super Gradient）
Sample Block	32 wells*3	2*16 wells*3
	0.2ml PCR tube with flat & dome cap	
Heating & Cooling Technology	New generation Peltier technology allow 1,000,000 thermal cycles	
Display	10.1" Full Color Touch Screen with adjustable angle, and real-time graphical display	
Language	English	
USB flash drive Function	Unlimited storage of protocols with USB flash drive; Back up user's data	
Communication Ports	USB 2.0 & LAN	
	TEMPERATURE FEATURES	
Block Temp. Range	0℃~105℃	
Max. Heating/Cooling Rate	7.5℃/s	
Temp. Uniformity	±0.2℃	
Temp. Accuracy	±0.1℃	
Display Resolution	0.1℃	
Ramping Rate Adjustable	Yes	
	GRADIENT FEATURES	
Gradient Accuracy	±0.1℃	
Uniformity	±0.2℃	
Gradient Range	30℃ ~ 105℃	
Temp. Differential Range	0.1℃ ~ 25℃	The Temp.difference is 0.1-25℃
Display of Gradient Temperature	Each individual block has 8 gradient temperatures	2-zone Temp.can be set independently for each individual block, better than traditional gradient function
	SOFTWARE FEATURES	
Max. Number of Programs	Max.300,000 programs onboard, unlimited storage of protocols with USB flash drive	
Max. Step	30 Steps, multiple nesting cycles available	
Max. Cycle	100 Typical Cycles (multiple nesting allows 10,000 cycles)	
Time Increment/decrement	1-600 sec, available for Long PCR	
Temp.Increment/decrement	0.1-10℃, available for Touchdown PCR	
Auto Pause & Auto Restart	Yes	
Multi-user log in	Password-based authentication protect personal PCR protocols	
Hold at 4℃	A below ambient Temp. incubation allow PCR products storage overnight	
Program Wizard	Pre-program template make the editing very easy through modify several parameters.	
Running Report	Provide full review of perviously run protocols	
PC Connection(Extra Option)	Remote PC control to manage no more than 50 units across the LAN network	
	HEAT LID FEATURES	
Lid Temp. Range	30℃ ~ 115℃	
Open Method	Innovative TOP-OPEN TM technology, with even pressure of heat lid	
Auto Shut-Off	Lid will shut off automatically when protocol finish or the block Temp. falls below set Temp.	
	OTHER FEATURES	
Power Supply	100V ~ 240V, 50-60Hz	
Consumption	1200W	
Dimension（L×W×H）	375×270×277mm	
Net Weight	13KG	

TalentGene™ series

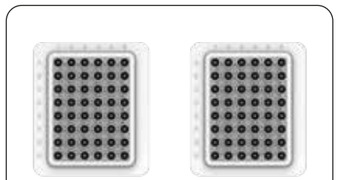
T20/T20D
Dual–block Thermal Cycler

- Two individual sample blocks allowing two different protocols to run at the same time
- New generation Peltier technology, allowing 1,000,000 thermal cycles
- Fast ramping rate more than 7.5℃/sec
- New lever-style heat lid to lock up the lid pressure automatically, ensuring even pressure during running of protocol
- Interchangeable T-series sample block swapped in seconds without tools

Eight calculated temperatures can be set for each block

View and run PCR experiments in real time

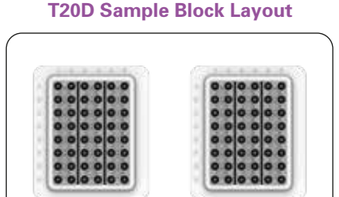
T20 Sample Block Layout



Three different gradient temperatures can be set for each block

10.1" TFT Full Color touch screen, with wide viewing angles

T20D Sample Block Layout



Model	T20 (Dual–Block Gradient)	T20D (Dual–Block Super Gradient)
Sample Block	48 wells*2	3*16 wells*2
	0.2ml PCR tube, strip with flat & dome cap	
Heating & Cooling Technology	New generation Peltier technology allow 1,000,000 thermal cycles	
Display	10.1" Full Color Touch Screen with adjustable angle, and real-time graphical display	
Language	English	
USB flash drive Function	Unlimited storage of protocols with USB flash drive; Back-up user's data	
Communication Ports	USB 2.0 & LAN	
Upgradable models	interchangeable T-series sample block swapped in seconds without tools.	
	TEMPERATURE FEATURES	
Block Temp.Range	0℃~105℃	
Max. Heating/Cooling Rate	7.5℃/s	
Temp.Uniformity	0.2℃	
Temp.Accuracy	0.1℃	
Display Resolution	0.1℃	
Ramping Rate Adjustable	Yes	
	GRADIENT FEATURES	
Gradient Accuracy	±0.1℃	
Uniformity	±0.2℃	
Gradient Range	30℃ ~ 105℃	
Temp. Differential Range	0.1℃ ~ 25℃	The Temp.difference is 0.1-25℃
Display of Gradient Temp.	Each individual block has 8 gradient Temp.	3-zone Temp.can be set independently for each individual block, better than traditional gradient functin
	SOFTWARE FEATURES	
Max. number of Protocols	Max. 300,000 programs onboard, unlimited storage of protocols with USB flash drive	
Max. Step	30 Steps, multiple nesting cycles available	
Max. Cycle	100 Typical Cycles (multiple nesting allows 10,000 cycles)	
Time Increment/decrement	1-600 sec, available for Long PCR	
Temp.Increment/decrement	0.1-10℃, available for Touchdown PCR	
Auto Pause & Auto Restart	Yes	
Multi–user log in	Password-based authentication protect personal PCR protocols	
Hold at 4℃	A below ambient Temp. incubation allow PCR products storage overnight	
Program Wizard	Pre-program template make the editing very easy through modify several parameters.	
Running Report	Provide full review of perviously run protocols	
PC Connection(Extra Option)	Remote PC control to manage no more than 50 units across the LAN network	
	HEAT LID FEATURES	
Lid Temp.Range	30℃ ~ 115℃	
Auto Shut–off	Lid will shut off automatically when protocol finish or the block Temp. falls below set Temp.	
Open Method	Innovative TOP-OPEN technology, with even pressure of heat lid	
	OTHER FEATURES	
Power Supply	100V ~ 240V, 50-60Hz	
Consumption	1200W	
Dimension（L×W×H）	375×270×277mm	
Net Weight	13KG	

TalentGene™ series

T10 series
2D Gradient Thermal Cycler

- Innovative Peltier Technology, Max. Ramping Rate up to 10℃/sec.
- 2D Gradient Function, Perfect Optimization for Two PCR Temperatures.
- Adjustable 10.1" Touch Screen to Meet various Angle Requirements.
- Interchangeable T-series sample block swapped in seconds without tools.

Model	T10A	T10B	T10C	T10D	T10S
Sample Block	96wells			4*4 wells*6	96wells
	0.2ml or 0.1ml PCR tube, strips, 96 well PCR plate				
Upgradable models			Replaceable sample block can be upgraded to a dual or triple blocks PCR instrument with no tool		
Heating & Cooling Technology	New generation Peltier technology allows 1,000,000 thermal cycles				
Display	10.1" Full color touch screen with adjustable angle, real-time graphical display				
Language	English				
USB Flash Drive Function	Unlimited storage of protocols with USB flash drive				
Communications	USB2.0, LAN or WIFI				
network function	At the end of the experiment, you can send the report to your email via WIFI with one click				
	TEMPERATURE FEATURES				
Block Temp. Range	0℃~105℃				
Max. Heating/Cooling Rate	5℃/s	6℃/s	10℃/s	10℃/s	10℃/s
Temp. Uniformity	±0.2℃				
Display Resolution	0.1℃				
Ramping Rate Adjustable	Yes				
	GRADIENT FEATURES				
Gradient Range	30℃ ~ 105℃				
Temp. Differential Range	0.1 ℃ ~ 42 ℃			0.1~ 24.9℃ between two adjacent zones	Horizontal 0.1℃~42℃ Vertical 0.1℃~24℃ (2D)
	SOFTWARE FEATURES				
Max. Number of Programs	> 300,000 programs onboard, unlimited storage of protocols with USB flash drive				
Max. Step	30 steps, multiple nesting cycles available				
Max. Cycle	100 Typical Cycles (multiple nesting allows 10,000 cycles)				
Time Increment/decrement	1-600 sec, available for Long PCR				
Temp. Increment/decrement	0.1-10℃, available for Touchdown PCR				
Auto Pause & Auto Restart	Yes				
Hold at 4℃	Yes				
Program Wizard	Pre-program template make the editing very easy through modify several parameters				
Running Report	Provide full review of previous running protocols				
	HEAT LID FEATURES				
Lid Temp. Range	30℃ ~ 115℃				
Idle Lid Temp	Yes				
Auto Shut–Off	Lid will shut off automatically when protocol finish or the block Temp. falls below the setting block temperature				
Overpvessure protection	Innovative technology, prevent PCR tubes crush from overpressure of heat lid				
	OTHER FEATURES				
Power Supply	100V ~ 240V, 50-60Hz				
Consumption	600W		1200W		
Dimension（L×W×H）	375×270×277mm				
Net Weight	13KG		15KG		

ArtGene™ series

A600
Super Gradient Thermal Cycler

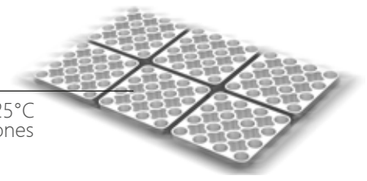
- Six different annealing temperatures settable for each block
- Better uniformity than traditional gradient cycler
- Max. temp. differential range 25℃ between two adjacent zone block
- New generation peltier technology, with ramping rate to 5.5 ℃/sec
- Download & upgrade LongGene software via flash drive

7" TFT Full Color Touch Screen, real-time graphical display

Front air-in & back air-out design, allowing two thermal cyclers be placed side by side

Six zone block to optimize primer pairs

Max.temp. difference is 25°C between two adjacent zones



Model	A600
Sample Block	4*4 wells*0.2ml*6 6 annealing temp. can be accurately set simultaneously
Tube Optional	0.2ml PCR tube/Strip, 96-well PCR plate
Heating & Cooling Technology	New generation Peltier technology allow 1,000,000 thermal cycles
Display	7" Color Touch Screen, real-time graphical display
Language	English
USB flash drive Function	Unlimited storage of protocols with USB flash drive
Communication Ports	USB2.0 & LAN
Venting System	Front air in & back air out, thermal cyclers can be placed side by side
	TEMPERATURE FEATURES
Block Temp.Range	0℃~105℃
Max. Heating/Cooling Rate	5.5℃/s
Temp.Uniformity	±0.15℃
Temp.Accuracy	±0.1℃
Display Resolution	0.1℃
Ramping Rate Adjustable	Yes
	GRADIENT FEATURES
16 Wells Uniformity	±0.2℃
Gradient Accuracy	±0.15℃
Gradient Range	0℃ ~ 105℃
Temp.Differential Range	0.1~ 25℃ between two adjacent zones
Gradient Capability	Six temperatures can be set independently, better than traditional gradient function
	SOFTWARE FEATURES
Max. Number of Programs	Max. 300,000 programs onboard, unlimited storage of protocols with USB flash drive
Max. Step	30 Steps, multiple nesting cycles available
Max. Cycle	100 Typical Cycles,max.10,000 nesting cycles
Time Increment/decrement	1-600 sec, available for Long PCR
Temp.Increment/decrement	0.1-10℃, available for Touchdown PCR
Auto Pause / Auto Restart	Yes
Multi–user Log In	With Password-based authentication to protect personal protocols
Tm Calculator	Automatically calculates the melting & annealing Temp. of a pair of primers
Hold at 4℃	A below ambient Temp. incubation allow PCR products storage overnight
Real time temperature control curve record	Real time display of temperature change of hot cover and sample in operation
Running Report	Provide detailed reports of previously run protocols
PC Connection（Extra Option）	Remote PC control to manage 50 units by LAN network
	HEAT LID FEATURES
Height of Heat Lid	Steplessly adjustable lid, accommodates PCR tubes, strips & plates
Lid Feature	Innovative "TOP-OPEN" technology, protection from over-pressure
Heat Lid Temp.Range	30℃ ~ 115℃
Auto Shut–off	Lid will shut off automatically when protocol finish or the block Temp. falls below set Temp.
	OTHER FEATURES
Power Supply	100V ~ 240V, 50-60Hz
Consumption	600W
Dimension（L×W×H）	362×256×255mm
Net Weight	7.3KG

ArtGene™ series

A300
Fast Gradient Thermal Cycler

- New generation Peltier technology, with ramping rate at 6℃/sec
- Core parts from famous supplier,ensure Temp. uniformity and accuracy
- Wide range of module options, easily interchangeable modules no tools required
- 15,000 on board protocol storage and unlimited storage with flash drive
- Global universal switch power supply (100V-240V, 50-60Hz)
- Innovative design, multiple patent protection

Model	A300
Optional Module	96 Module : 96 wells×0.2ml 9677 Module : 96 wells×0.2ml+77wells×0.5ml 384 Module : 384 wells Multi-purpose Module: 9677 Module + In-situ Adapter In-situ Module: Flat-surface Block
Heating & Cooling Technology	New generation Peltier technology alow 1,000,000 thermal cycles
Display	7"Color Touch Screen, real-time graphical display
Language	English
USB flash drive Function	Unlimited storage of protocols with USB flash drive
Communication Ports	USB2.0 & LAN
Venting System	Front air in & back air out, two cyclers can be placed side by side
	TEMPERATURE FEATURES
Block Temp. Range	0℃~105℃
Max. Heating/Cooling Rate	6℃/s
Temp. Uniformity	±0.2℃
Temp. Accuracy	±0.1℃
Display Resolution	0.1℃
Ramping Rate Adjustable	Yes
	GRADIENT FEATURES
Gradient Accuracy	±0.1℃
Column Uniformity	±0.2℃
Gradient Range	30℃ ~ 105℃
Temp.Differential Range	0.1℃ ~ 42℃
Gradient Capability	12 Column
	SOFTWARE FEATURES
Max. Number of Programs	Max. 15,000 programs onboard, unlimited storage of protocols with USB flash drive
Max. Step	30 Steps, multiple nesting cycles available
Max. Cycle	100 Typical Cycles, max.10,000 nesting cycles
Time Increment/decrement	1-600 sec, available for Long PCR
Temp.Increment/decrement	0.1-10℃, available for Touchdown PCR
Auto Pause / Auto Restart	Yes
Multi–user Log In	With Password-based authentication to protect personal protocols
Tm Calculator	Automatically calculates the melting & annealing Temp. of a pair of primers
Hold at 4℃	A below ambient Temp. incubation allow PCR products storage overnight
Real time temperature control curve record	Real time display of temperature change of hot cover and sample in operation
Running Report	Provide detailed reports of previously run protocols
PC Connection (Extra Option)	Remote PC control to manage 50 units by LAN network
	HEAT LID FEATURES
Height of Heat Lid	Steplessly adjustable lid, accommodates PCR tubes, strips & plates
Lid Feature	Innovative "TOP-OPEN" technology, protection from over-pressure
Heat Lid Temp. Range	30℃ ~ 115℃
Auto Shut–off	Lid will shut off automatically when protocol finish or the block Temp. falls below set Temp.
	OTHER FEATURES
Power Supply	100V ~ 240V, 50-60Hz
Consumption	600W
Dimension（L×W×H）	362×256×255mm
Net Weight	7.3KG

ArtGene™ series

A100/A200
Classic Thermal Cycler

- 7" TFT color touch screen, real-time graphical display
- Outstanding block Temp.uniformity, always obtains best PCR results
- Effortlessly Interchangeable modules, no tools required
- 10,000 on board protocol storage and unlimited storage with flash drive
- Gradient and non-gradient functions are optional and cost-effective
- Beautiful and Streamlined appearance, lightweight structure

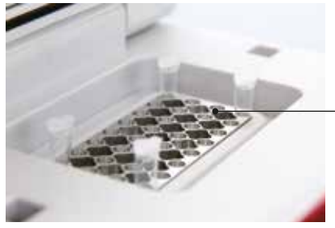
Model	A100	A200
Optional Module	9677 Module : 96 wells×0.2ml+77wells×0.5ml 96 Module : 96 wells×0.2ml 384 Module : 384 wells Multi-purpose Module : 9677 Module + In-situ Adapter	
Heating & Cooling Technology	New generation Peltier technology alow 1,000,000 thermal cycles	
Display	7"Color Touch Screen, real-time graphical display	
Language	English	
USB flash drive Function	Unlimited storage of protocols with USB flash drive	
Communication Ports	2 USB & 1 LAN	
Venting System	Front air in & back air out, two cyclers can be placed side by side	
	TEMPERATURE FEATURES	
Block Temp.Range	0℃~105℃	
Max. Heating/Cooling Rate	5℃/s	
Temp.Uniformity	±0.2℃	
Temp.Accuracy	±0.1℃	
Display Resolution	0.1℃	
Ramping Rate Adjustable	Yes	
	GRADIENT FEATURES	
Gradient Accuracy	/	±0.1℃
Column Uniformity	/	±0.2℃
Gradient Range	/	30℃ ~ 105℃
Temp.Differential Range	/	0.1℃ ~ 42℃
Gradient Capability	/	12 Column
	SOFTWARE FEATURES	
Max. Number of Programs	Max. 10,000 programs onboard, unlimited storage of protocols with USB flash drive	
Max. Step	30 Steps, multiple nesting cycles available	
Max. Cycle	100 Typical Cycles, max.10,000 nesting cycles	
Time Increment/decrement	1 ~ 600 sec, available for Long PCR	
Temp.Increment/decrement	0.1 ~ 10℃, available for Touchdown PCR	
Auto Pause / Auto Restart	Yes	
Multi–user Log In	With Password-based authentication to protect personal protocols	
Tm Calculator	Automatically calculates the melting & annealing Temp. of a pair of primers	
Hold at 4℃	A below ambient Temp. incubation allow PCR products storage overnight	
Real time temperature control curve record	Real time display of temperature change of hot cover and sample in operation	
Running Report	Provide detailed reports of previously run protocols	
PC Connection（Extra Option）	Remote PC control to manage 50 units by LAN network	
	HEAT LID FEATURES	
Height of Heat Lid	Steplessly adjustable lid, accommodates PCR tubes, strips & plates	
Lid Feature	Innovative "TOP-OPEN" technology, protection from over-pressure	
Heat Lid Temp.Range	30℃ ~ 115℃	
Auto Shut–off	Lid will shut off automatically when protocol finish or the block Temp. falls below set Temp.	
	OTHER FEATURES	
Power Supply	100V ~ 240V, 50~60Hz	
Consumption	600W	
Dimension（L×W×H）	362×256×255mm	
Net Weight	7.3KG	

MiniGene™ series

Mini3210/3220
Mini Thermal Cycler

- Fast ramping rate, up to 5℃/sec
- Superior Temp. uniformity, guarantee the same results from 32 wells
- Core parts from famous supplier, long life is guaranteed
- Lightweight & professional

Lever-style heat lid, ensure
even pressure for each tube



Unique 32 wells block,
allow usage of 8 strip PCR tubes

Mini Thermal
cycler with 4.3" color touch screen

Model	Mini3210	Mini3220
Sample Block	32 wells	
Tube Type	Accommodates 0.2 ml tubes or strip of 8 tubes	
Heating & Cooling Technology	New generation Peltier technology allow 1,000,000 thermal cycles	
Display	4.3" TFT color touch screen	
Language	English	
Venting System	Bottom air in & back air out, two thermal cyclers can be placed side by side	

	TEMPERATURE FEATURES	
Block Temp.Range	0.1℃~99.9℃	
Max. Heating/Cooling Rate	3℃/s	5℃/s
Temp.Uniformity	±0.25℃	
Display Resolution	0.1℃	
Ramping Rate Adjustable	Yes	
Lid Open Method	New "TOP-OPEN" technology lift & open with just one action	

	SOFTWARE FEATURES
Max. No. of Programs	≥ 100 protocols on board
Time Increment/Decrement	1~120 sec, available for Long PCR
Temp. Increment/Decrement	0.1~9.9℃, available for Touchdown PCR
Auto Pause / Auto Restart	Yes
Hold at 4℃	A below ambient temerature incubation allow PCR products storage overnight
Running Report	Provide detailed reports of previously run protocols

	OTHER FEATURES
Power Supply	100V ~ 240V, 50-60Hz
Power Consmption	220W
Approvals	ISO9001:2015, CE
Dimension（L×W×H）	232×182×157mm
Net Weight	2.9KG

ByGene™ series

Dry Bath Incubator BG200/BG100/BG25/BG32

ByGene™ series Dry Bath is a microcomputer controlled Heating & Cooling Plate, which is designed to accommodate an assortment of interchangeable Block. There are three models of Heating, Cooling & Mixing, whose wide applications include sample storage and reaction of various kinds of enzyme, heat treatment of nucleic acid & protein, PCR reaction and pre-denaturatoin, pre-denaturation before electrophoresis, serum solidification, etc. Model BG25 & BG100 adopts advanced Peltier based technology, Model BG100 & Bg200 shaking Dry Bath Incubator makes heating & cooling with mixing perfectly with brushless DC motor.

BG200
BG100
BG25

BG32

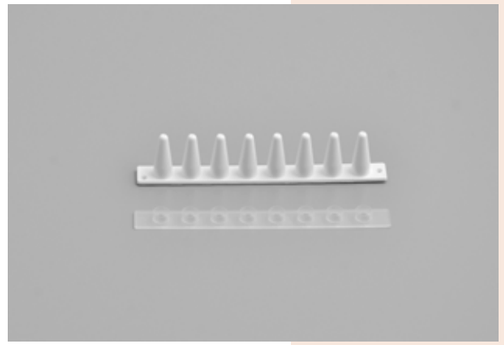
Model	BG200	BG100	BG25	BG32
Technology	Peltier-based	Peltier-based	Peltier-based	Peltier-based
Temp. Conteol Range	Room Temp. +5℃~100℃	0℃~100℃	-10℃~100℃	Room Temp. +5℃~100℃
Heating Time	<15min	<15min	≤15min	≤15min
control accuracy	±0.3℃	±0.3℃	±0.3℃	±0.3℃
Temp.Control Accuracy(@40℃)	±0.3℃	±0.3℃	±0.3℃	±0.3℃
Temp.Stability(@100℃)	±0.3℃	±0.3℃	±0.3℃	±0.3℃
Display Resolution	0.1℃	0.1℃	0.1℃	0.1℃
Temp.Bias Calibration Function	yes	yes	yes	yes
Timing Range	0min~99h59min	0min~99h59min	0min~99h59min	0min~99h59min
Max.Power	150W	150W	150W	150W
Mixing Speed	300rpm -2000rpm	300rpm -1500rpm	/	/
Mixing Orbit	2mm (Horizontal)	2mm (Horizontal)	/	/
Optional Block Model	A. 20 wells×0.5ml+15wells×1.5ml C. 54 wells×0.5ml E. 35 wells×2.0ml G. 35 wells×1.5ml		B. 96 wells×0.2ml D. 24 wells×5ml F. 24 wells×Φ12mm H. 6 wells×50ml	A. 96wells×0.2ml B. 24 wells×0.5ml+30wells×1.5ml C. 58 wells×0.5ml D. 39 wells×1.5ml E. 39 wells×2.0ml
Certificate	CE			

ClearGene™ series

Real-time qPCR Consumables

◎ 0.1ml White 8-strip with optical clear flat caps

1. The 8-strip is made of high quality raw materials imported from Europe.
2. Reduce dead space and eliminate condensation on side wall of tubes.
3. Shorten optical path, detect a higher fluorescence signal.
4. Most ideal for real-time qPCR experiments



◎ Semi-skirted 0.1ml 96-well qPCR plate (white, with optical clear sealing film)

1. Raw materials imported from Europe, not deformed, demonstrate good sealing
2. Compared with non-skirted plate, the mechanical strength is higher, minimize sample evaporation and distortion of fluorescence signals during the reaction
3. 0.1ml white plate, shorter optical path, higher sensitivity and accuracy
4. Reduce the amount of reagents and save cost