

AB QuantGene

Automated Real Time PCR System

Real Fast – Rapid QPCR

Real Performance

Real Reliability



AB QuantGene

Real Fast, Accurate, Compact – Real Time PCR System

SYSTAAQ AB QuantGene meet all your PCR needs – AB QuantGene combines innovative thermal and optical systems, user friendly software, optimized reagents and superior support for a verity of applications. AB QuantGene has compact footprint, quite operation and the ability to run as stand-alone system.

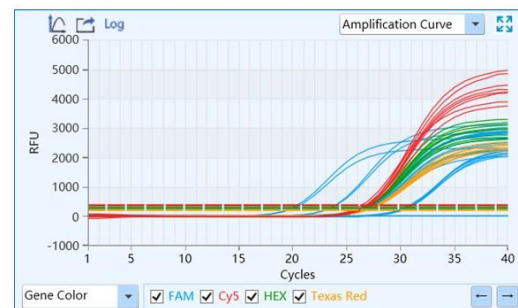
High Performance Features

- Quick Installation and factory Calibrated optics let you setup the system immediately
- Open system, easy-to-use software with powerful data analysis functions
- Fast cycling time, run and edit directly from touchscreen, batch data can be viewed and analyzed while run in process
- Highly sensitive quantitative and qualitative analysis
- Loading platform that can be ejected, very convenient for sample loading
- Low operational and maintenance cost, does not require specific plastic consumables
- Auto Quality Control Rules to accept or reject run based on user defined conditions
- Auto Concentration calculation for a given Dilution Factor
- Instantaneous power-off protection function which can protect all configuration settings in case of power off and the interrupted experiment can continue after power on



Optical & Thermal Performance

- Outstanding thermal and optical performance
- The temperature control system includes peltier heating module, sample block with outstanding uniformity and hot lid
- Hot-lid possesses a constant pressure with adjustable temperature. The concealed design of Hot-Lid avoid possible contact between user and the hot lid to ensure operation safety
- Separate high intensity LED for each channel
- Broad dynamic range, no need for photometric settings
- Excellent reproducibility between samples and repeatability between runs and instruments ensures the highest level of precision



Software and Connectivity

- 10.4' inches touch screen, stand-alone or PC Control
- One computer can connect with up to 10 units of AB QuantGene at the same time
- AB QuantGene can be connected to hospital LIS system.
- Real Time Quantification, HRM (High Resolution Melt curve analysis), SNP, Genotyping, Gene Expression analysis, thermal gradient
- Multiple PCR step modes, such as touchdown step, long step, gradient step, melting step and so on
- T_m Calculator application software that automatically calculate Fwd Primer T_m value, Rev Primer T_m value, Avg T_m value and Annealing Temp
- The unique universal report function is designed for user to customize their own report form
- Option to save, export and Import the standard curve



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Specifications

Throughput / Sample Capacity	96 samples
Device	6 Channel – Multiplex Real Time PCR System
Reaction Volume	1ul – 100ul
User Interface	Touch Screen or External Mouse

Optical

Optical System	6 Filtered LED – excitation and PD-detection			
Fluorescence Channels	Channel	Excitation (nm)±15	Detection (nm) ±15	Fluorophores
	Green	465	510	FAM , SYBR Green I, SYTO 9, EvaGreen, LC Green, Alexa Fluor 488
	Yellow	527	563	HEX , VIC, TET, JOE, CAL Fluor Gold 540, Yakima Yellow
	Orange	580	616	Texas Red , ROX, CAL Fluor Red 610, Alexa Fluor 568
	Red	632	664	Cy5 , LightCycler Red 640, Quasar 670, Alexa Fluor 633
	Crimson	680	730	Alexa Fluor 680 , Quasar 705, LightCycler Red 705
	CH 6	465	616	FRET , TAMRA, Cy3
Sensitivity	Detects 1 copy of target sequence in human genomic RNA.			
Dynamic Range	10 orders of Magnitude			

Thermal Performance

Heating and Cooling Method	Peltier
Accuracy	±0.1°C
Uniformity	±0.1°C
Ramp Rate	6.1°C/s
Temperature Range	0°C – 100°C
Gradient Range	1°C – 40°C
Gradient block	12 row
HRM	Support High Resolution Melting (HRM) function, Min temperature resolution 0.06°C
Sample Format	0.2 mL single PCR tube (clear, white or frosted), clear tube cap 0.2 ml 8-strip PCR tube (clear, white or frosted), clear tube cap 0.2 ml 96-well no skirt PCR plate (clear, white or frosted)

General Specifications

Environment for Operation	Temperature:	10°C ~30°C;
	Relative humidity:	20%~85%, non-condensing;
	Atmospheric pressure:	85.0kPa~106.0 kPa;
	Altitude:	below 2000m;
External PC Specifications	Computer Processors:	quad core CPU
	Internal Storage:	8GB
	Hard Disk:	500GB
	Network Card:	10M/100M adaptive network card;
	Operating System:	Windows 7, Windows 10
Communication Port	Necessary Software:	Office/Excel 2010
Communication Port	1 ethernet and 2 USB (can be used for mouse, keyboard and bar code scanner)	
Dimensions	475mm(L) ×355mm (W) × 484mm (H)	
Weight	30 kg	
Power	AC Input: 100-240V, 50-60Hz, 900VA	
Electrical Approvals	IEC, CE	
Licensed for real time PCR	Yes	
Catalog Number	1005206 stand-alone configuration with standard accessories	

- AB QuantGene if used in combination with SYSTAAQ kits indicated for use with the AB QuantGene instrument, is intended for the applications described in the respective kit IFU. If AB QuantGene is used with kits other than SYSTAAQ kits, it is user responsibility to validate the performance of such product combination for any particular application.
- AB QuantGene is intended for variety of applications including diagnosis (IVD), prevention or treatment of disease.
- AB Quantgene must be used by laboratory professionals trained in laboratory techniques, who have carefully read the Manual.

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