

AB QuantGene

Automated Real Time PCR System

Real Fast - Rapid QPCR
Real Performance
Real Reliability



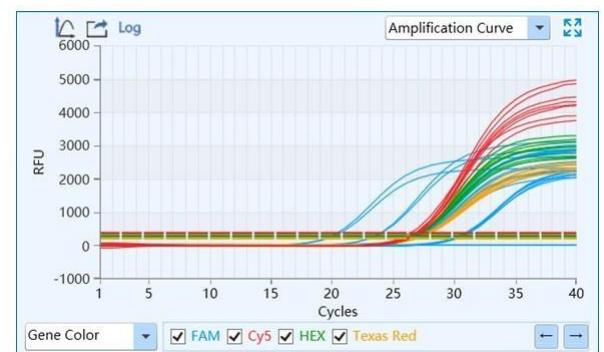
AB QuantGene

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 a stand-alone system.

High Performance Features

- Quick Installation and factory Calibrated optics let you setup the system immediately.
- Easy-to-use Software, Outstanding and powerful data analysis functions
- Outstanding thermal and optical performance
- Fast cycling time, Run and Edit directly from touchscreen, batch data can be viewed and analyzed while run in process.
- Open System for all Quantitative or Qualitative Reagents, does not require specific plastic consumables.
- 10.4' inches touch screen, stand-alone or PC Control
- Loading platform that can be ejected, very convenient for sample loading
- 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
- Broad Dynamic Range, no need for photometric settings
- Highly Sensitive Quantitative and Qualitative Analysis
- Separate high intensity LED for each channel
- Excellent reproducibility between samples and repeatability between runs and instruments ensures the highest level of precision.
- Real Time Quantification, HRM (High Resolution Melt curve analysis), SNP, Genotyping, Gene Expression analysis, thermal gradient
- 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.
- Instrument provides multiple PCR step modes, such as touchdown step, long step, gradient step, melting step and so on.
- One computer can connect with 10 AB QuantGene units at the same time, user can remote control the experiment and truly realize the network centralized control.
- AB QuantGene can be connected to hospital LIS system.
- The unique universal report function is designed for user to customize their own report form
- Option to save, export and Import the standard curve
- Low Maintenance



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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	<table><thead><tr><th>Channel</th><th>Excitation</th><th>Detection (nm) ±15</th><th>Fluorophores</th></tr></thead><tbody><tr><td>Green</td><td>465</td><td>510</td><td>FAM, SYBR Green I, SYTO 9, EvaGreen, LC Green, Alexa Fluor 488</td></tr><tr><td>Yellow</td><td>527</td><td>563</td><td>HEX, VIC, TET, JOE, CAL Fluor Gold 540, Yakima Yellow</td></tr><tr><td>Orange</td><td>580</td><td>616</td><td>Texas Red, ROX, CAL Fluor Red 610, Alexa Fluor 568</td></tr><tr><td>Red</td><td>632</td><td>664</td><td>Cy5, LightCycler Red 640, Quasar 670, Alexa Fluor 633</td></tr><tr><td>Crimson</td><td>680</td><td>730</td><td>Alexa Fluor 680, Quasar 705, LightCycler Red 705</td></tr><tr><td>CH 6</td><td>465</td><td>616</td><td>FRET, TAMRA, Cy3</td></tr></tbody></table>	Channel	Excitation	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
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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 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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