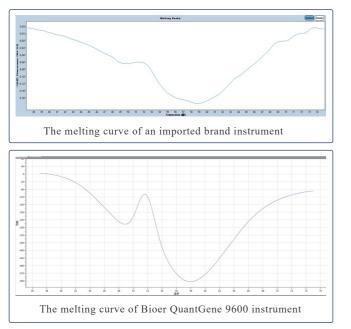
Case 3: Melting curve---Comparative test with an imported brand instrument



Test summary:

It can be seen from the melting curve of the above comparison test that, based on the same test conditions, the melting curve of QuantGene 9600 real-time Fluorescence Quantitative PCR analyzer has more obvious peak effect and higher fluorescence detection sensitivity.

Product Parameters

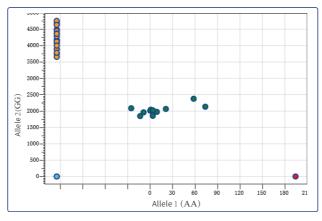
Product name FQD-96C(EA4) FQD-96C(EA6) FQD-96C(EA5) Product model 96×0.2ml (Suitable for single tube, 8 strip tube and 96-well plate (non skirt & half skirt)) F5 F1 F2 F3 F4 F6 **Detection channel** FAM, SYBR VIC, HEX, TET, Cy5 Cy5.5 ROX. TEXAS Cy3,Tamra Applicable dye Green I JOE -RED Quasar -670 Quasar -705 4°C~99.9°C(Minimum setting scale:0.1°C) Module operating temperature range 6°C/s Max heating rate 5.5°C/s Max cooling rate Should be no greater than 0.1 $^{\circ}\mathrm{C}$ Module temperature control accurac **Temperature uniformity** The temperature difference is within ±0.3 °C Temperature control accuracy of hot cover $105^{\circ}C \pm 5^{\circ}C$ CV≤3% Continuous operation Mode of operation **Operating system** Windows XP/Windows Vista/Windows7/Windows8 $100-240V \sim 50Hz 1000VA$ **Overall dimensions** 490mm×290mm×391mm Weight 28kg

*Effect value tested in standard lab environment.

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Case 4: End-point fluorescence genotyping ---**KASP** genotyping test



Genotyping verification results:

Serial number	Genotype	Whether there is a genetic mutation	Reaction on alcohol
1	GG	NO	No response
2	GA	YES	Blush
3	AA	YES	Allergy

Test summary:

Summary: From the experimental data shown in the chart, it can be seen that genotypes and phenotypes are consistent, indicating that the results of KASP genotyping test are correct.



Multi-C

()Up To 6 \ast

BlueTooth

Gradien

QuantGene 9600 **Fluorescent Quantitative Detection System**







AUTO-CASE

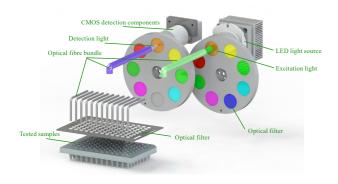




Product Description

QuantGene 9600 is based on the excellent quality of the LineGene family, using the very mature thermoelectric refrigeration technology, a new light source and optical circuit design. The unique constant current power supply and 6-zone independent temperature control method ensure that the product is fast, accurate and stable in fluorescence quantitative analysis. The product adopts modular design, with a variety of configuration options, at the same time, the addition of temperature gradient, sample 4°C cryopreservation, automatic dehumidification and other functions , fully meet the scientific research and clinical medical needs.

Product Features



Top imaging photoelectric detection

- Top imaging technology was adopted to collect 96-well fluorescent signals without detection time difference. Fast detection, single channel detection need only 1 second;
- A new array of flat-field light source can greatly improve the excitation optical effect and enhance the fluorescence signal;
- The excitation and detection channels adopt independent filter wheels, which can cope with secondary excitation detection experiments without expanding the channel, such as the application of double hybrid probe;
- The cluster conduction design of high-end optical fiber is adopted to improve the fluorescence signal strength, reduce the optical conduction loss, and eliminate the edge optical path difference without calibration.

easy to operate.

• Automatic pop-up sample warehouse design,



6 partition thermal cycling module Automatic pop-up sample bin

- The use of 72 series long life semiconductor refrigeration (Ferrotec Peltier), its life is three times higher than that of traditional TE;
- Micro heat pipe array technology, improve the heat conduction efficiency;
- 6 partition accurate and independent temperature control, improve the reaction speed;
- High temperature uniformity, fast ramping speed; -----

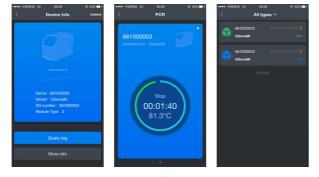
Intelligent adjustable hot cover

- Built-in high sealing hot cover to avoid reagent volatilization;
- The hot cover can be automatically adjusted to fit various kinds of test tubes.

..... Full adaptable software system

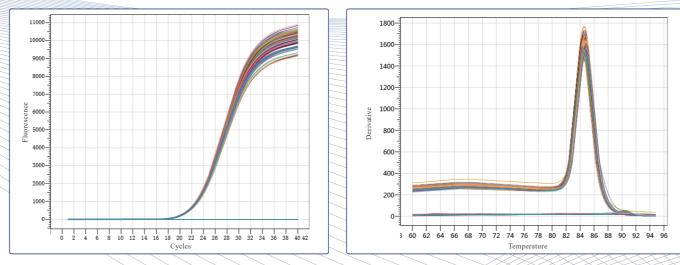
- Large touch screen software operation, new humanized operation interface, greatly improve customer's experience;
- Equipped with mobile phone/tablet APP to realize remote operation and real-time monitoring by users;
- The new Ul design of international standards, to adapt to the mainstream market users at home and abroad operating habits;
- Flexible program setting, comprehensive analysis and reporting functions, all parameters can be stored;
- Intelligent software system, no need for debugging gain, wide range of linear analysis, good reproducibility of experimental results.





CASES

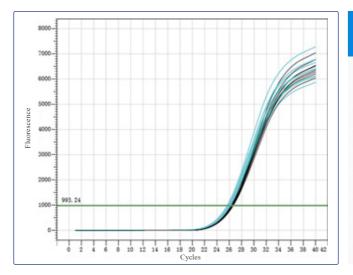
Case 1: Absolute quantification---- Fluorescence detection consistency test



								\sim				
Ct value	1	2	3	4	5	6	7	8	9	10	11	12
А	24.48	24.45	24.46	24.51	24.4	24.44	24.37	24.35	24.33	24.36	24.43	24.4
В	24.4	24.47	24.4	24.43	24.38	24.43	24.44	24.48	24.43	24.44	24.39	24.4
С	24.45	24.49	24.43	24.35	24.49	24.38	24.32	24.46	24.4	24.45	24.43	24.34
D	24.44	24.51	24.4	24.41	24.36	24.43	24.3	24.39	24.41	24.46	24.44	24.43
Е	24.46	24.37	24.45	24.41	24.36	24.3	24.41	24.51	24.32	24.43	24.38	24.37
F	24.37	24.43	24.43	24.37	24.42	24.38	24.38	24.35	24.35	24.35	24.39	24.39
G	24.35	24.39	24.5	24.34	24.37	24.44	24.45	24.45	24.42	24.32	24.37	24.47
Н	24.4	24.42	24.37	24.37	24.44	24.42	24.37	24.32	24.47	24.42	24.39	24.36

Test summary: The test data of 96 samples shown in the figure above were analyzed according to the baseline threshold method: avgCt=24.40667, std=0.049133, and CV=0.2%, indicating that QuantGene 9600 real-time fluorescence quantitative PCR analyzer had very good repeatability in fluorescence detection wells.

Case 2: Absolute quantification-fluorescence detection sensitivity test



Test summary: Summary: as shown in the figure above, it can be seen from the 1.5 times concentration of the HBV fluorescence quantitative detection kit analyzer is high.

Touch version software

APP software

Serial number	1.5 x concentration Ct value (blue curve)	1 x concentration Ct value (black curve)	Ct differential
1	26.39	26.65	0.26
2	25.92	26.77	0.85
3	26.16	26.7	0.54
4	26.1	26.52	0.42
5	26.15	26.79	0.64
6	26.24	26.62	0.38
7	26.08	26.79	0.71
8	25.92	26.88	0.96
The average Ct	26.120	26.715	0.595

that the measured mean Ct value of 1.5 times concentration is 0.595 different from that of 1 times concentration (the theoretical Ct value should be 0.58 different), indicating that the fluorescence detection sensitivity of QuantGene 9600 real-time fluorescence quantitative PCR