Quant Gene 9600

Fluorescence Quantitative PCR Detection System

Product model: FQD-96C



96
0.2 mL positions

6
Detection channels

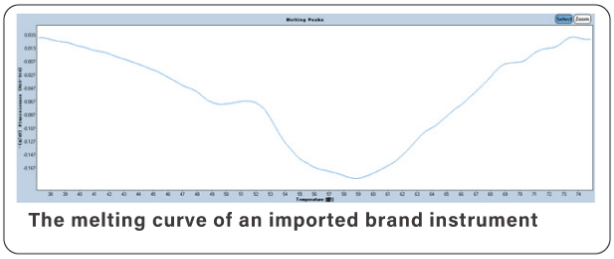
6.5°C/s
Maximum ramping rate

The QuantGene 9600 is characterized by mature thermoelectric refrigeration technology, brand-new light source and light path design.

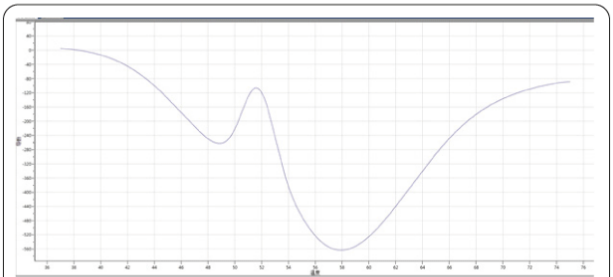
Performance Examples

Case 3

Melting curve - Comparative test
with an imported brand instrument



The melting curve of an imported brand instrument



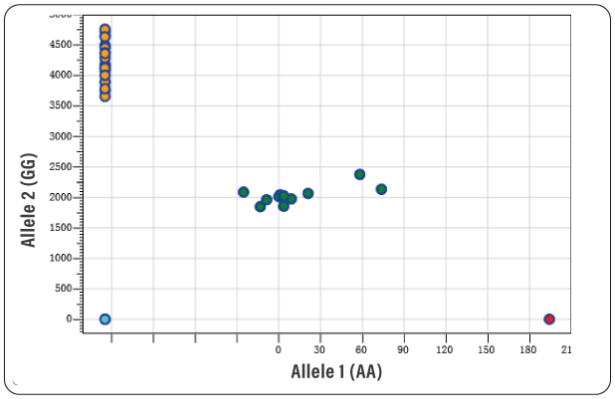
The melting curve of Bioer QuantGene 9600 instrument

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.

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

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.

Product Parameters

Core configuration and assay functions

Product model	FQD-96C
Sample size	10~100μl (96 0.2ml)
Reaction system	10100-μl (96 0.2ml)
Dynamic range	1--10^{10}
Features	Qualitative/absolute quantitative, relative quantitative, SNP analysis, fusion curve method genotyping, standard curve, fusion curve, allele identification, 6 independent temperature zones, HRM, automatic gain, user defined parameters, etc

Detection channels and probe dyes (part)

F1	F2	F3	F4	F5	F6
FAM, SYBR Green I	HEX/VIC/TET/JOE / CY3/TAMRA	ROX, TEXAS-RED	Cy5, Quasar-670	Cy5.5, Quasar-705	CUSTOM

Technical Specifications

Optics, thermal control, interfaces and protection

Excitation wavelength

300~800mm

Fluorescence detection wavelength

500~800nm

Resolution

Differences as low as 1.5 times in copy number can be distinguished in single weight reactions

Module operating temperature range

4~105°C (minimum setting scale 0.1°C)

Maximum ramping rate

6.5°C/s

Temperature control precision

<0.1°C

Temperature uniformity

<0.2°C

Hot cover temperature range

30~110°C (adjustable, default 105°C)

Temperature control mode

Block Mode and Tube Mode

Gradient control

6 zone temperature control

Interface way

USB, bluetooth

Communication port

100240-VAC, 5060/Hz, 1000VA

Overall dimensions

490mm 290mm×391mm.

Weight

28kg

Security protection and alarm

Overheat protection and alarm for hot cover, overheat protection for switching power

Safety certification

supply CE/EMC/RoHS2.0TVD