

LineGene K Plus

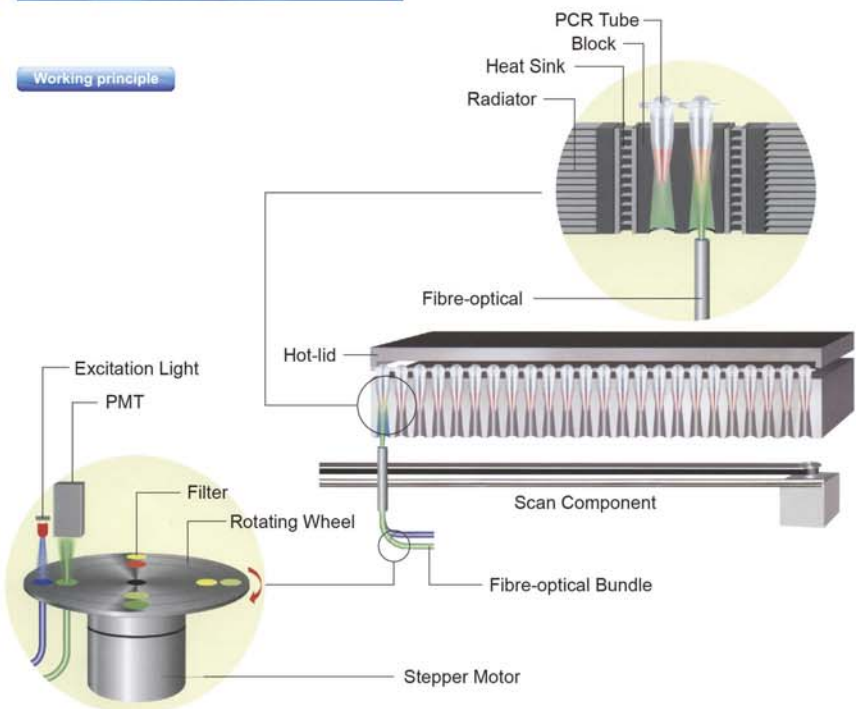


LineGene K Plus is latest realtime PCR detection system.

LineGene K plus has a faster heating and cooling rate, better temperature control accuracy, temperature uniformity and the machine stability with the specially-made Peltier by Ferrotec, advanced optical fiber technology, the new wide voltage power supply, its unique block radiating patent technology and the bottom detection patent mode. It can be used with Windows Tablet PC. This new touch screen operation will bring you the ultimate experience of human-computer interaction.

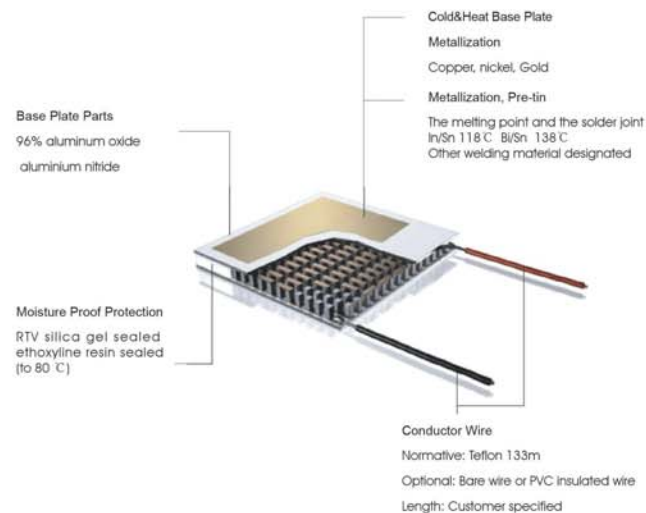
The new and innovative LineGene K Plus Real-time PCR detection system can adapt to different levels of customer requirements, which can fully meets various requirements of scientific research and clinical applications.

Working principle

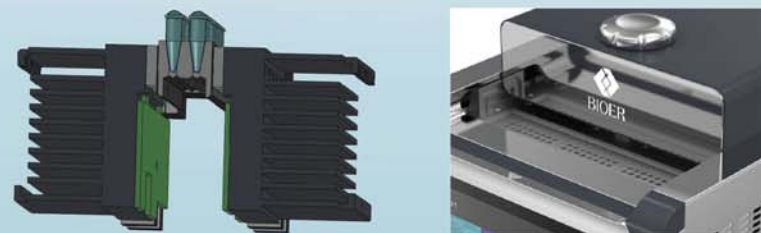


Precise temperature control system

By adopting unique side double Ferrotec heating method, add heat transmission area, speed up heat transmission, improve the rate of temperature increase. Meanwhile, novel three-block design ensures temperature uniformity of each block controlled independently without interruption.



- Advanced thermoelectric refrigeration technology and super fast heat cycle system ensure fast and stable heating and cooling.
- Multipoint temperature control ensures better temperature uniformity for 48 sample holes.
- SOAK ensures low temperature conservation of PCR kits.
- Hot lid realizes PCR oil-free operation.
- Auto hot lid, no need for manual open/close, ensures constant pressure regarding various heights' PCR tubes.

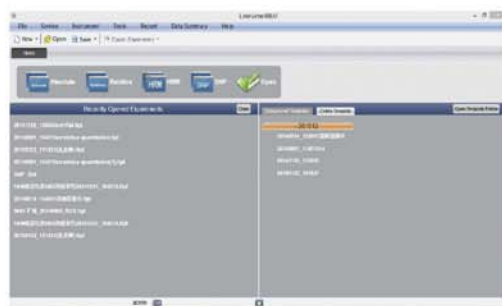


Powerful software system

- Chinese/English interface, flexible program setting, comprehensive analysis and report function, all the parameters can be stored.
- Multiple or single report printing is supportive.
- Automation, accuracy and in-time service provided by long-distance network, give the most advanced technology support for 48 well quantitative detection system.
- Support Windows Tablet.
- Support connecting modes of RS232, USB, Bluetooth.



● Tablet software interface



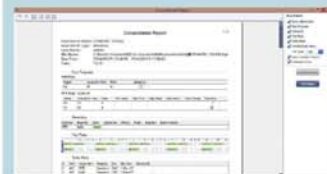
● Main interface covers simplified settings of quantification, relative quantification, SNP, HRM function, besides, more functions like, open latest file and classified template. It's more convenient to search previous experiments and create a new experiment through classified template.



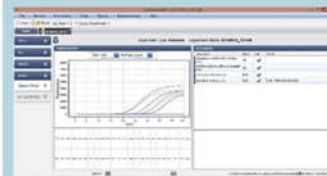
● On the software running interface, real-time temperature curve, we can see program running progress and real-time fluorescence, to better master the whole experiment progress.



● On the experiment result analysis interface, three Ct value calculation methods analyze the Ct value accurately. It can analyze experiment result by standard curve from standard or by importing outside standard curve, to reduce experiment time.

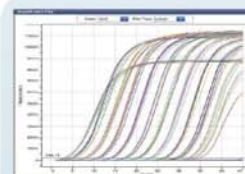


● Consolidated report includes basic experiment information, programs, reacting plate picture, amplification curve. All the experiment data is clear at one glance.

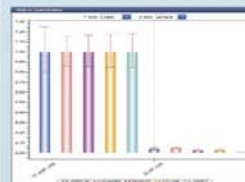


● Quality control report ensures the experiment accuracy.

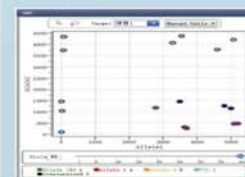
Technical parameters of product



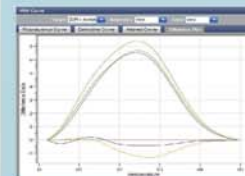
● Absolute Quantification
Repeating the experiments of 10 times concentration gradient. The results show good reproducibility and high sensitivity.



● Relative Quantification
The detected genes: GAPAH(Endogenous Control), NANOG, OCT3/4, DNMT3B, GABRB3, TOGF1. The results show that the relative content of each gene is detected accurately.



● SNP
The results shows that different genotypes are obviously distinguished.



● HRM
2 templates with one base pair difference in triplicate. The difference is easily recognized.



Specifications

Product name	LineGene K Plus Real-Time PCR Detection System			
Model	FQD-48A			
Certificate	Ferrotec Peltier/CE/MET/RoCH2/PICC product quality liability insurance			
Sample Capacity	48×0.2ml (Single tube or Strips 8 PCR tubes)			
Detected Fluorescence	F1	F2	F3	F4
Dye	FAM, SYBR Green I	VIC, HEX, JOE, Cy3 TAMRA	ROX, TEXAS-RED	Cy5 Quasar 670
Block Temp. Range	4~105 C (Min setting scale is 0.1 C)			
Heating/Cooling Rate	4 C/s(max)			
Temp. Control Accuracy	≤±0.1 C (55 C typical value)			
Temp. Fluctuation	≤±0.1 C			
Temp. Uniformity	≤±0.3 C			
Hot-lid Temp. Range	70~110 C (Adjustable, Default 105 C, Automatic Hot-lid)			
Operation Mode	Three independent temperature control blocks, 0.1~6 C Temperature difference between blocks.			
Temp. Control Mode	Continuous			
Feature Function	Absolute Quantification, Relative Quantification, SNP Analysis, Melting Curve Genotyping, Gradient, HRM, Multi-channel Crosstalk Correction, Background Correction, Automatic Gain, Customized Parameters.			
Operation System	Microsoft: Windows XP/windows vista/windows 7/windows 8			
PC Configuration	Surface Pro series, PC/Laptop			
Socket	RS232 adapter, USB adapter, Bluetooth adapter			
Power Supply	100-240V~50/60Hz 600W			
Dimension	384mm×353mm×348mm			
Weight	13kg			