

QuantGene 9600

LineGene 9600 Plus

LineGene K Plus

LineGene Mini

LineGene K Plus



LineGene K Plus fluorescent quantitative detection system adopts fluorescence real-time detection method to analyze amplification of PCR templates, suitable for polymerase chain reaction fluorescence quantitative detection in research areas including human genome engineering, forensic medicine, oncology, organization and population biology, paleobiology, zoology, and botany, and in clinical diagnosis for virus, cancer and genetic disease. The PCR detection system is in-vitro medical diagnosis equipment which can be used in clinical lab for copy number quantitative analysis of various genes with fluorescence polymerase chain reaction method.



Portable tablet compatibility with wireless use makes operation easier.



Unique three independent modules, precise temperature control, and easy PCR tube placement



Status LED indicator brings user better experience.



3D hot lid, constant pressure, sealing and insulating



Compact and light, takes less space.

Product features

Powerful performances

- Unique module bottom detection technology of patent for invention effectively prevents mutual interruption
- High-intensity LED excitation light source, energy conservation, high efficiency, long service life and free from maintenance
- Unique sandwich Ferrotec Peltiers heating method increases thermal transmission contact area, accelerates heat transmission and improves temperature ramp rate
- Multiple-point temperature control ensures best temperature uniformity of 48 wells
- Three independent temperature control modules ensure more accurate control of different annealing temperatures.
- Equipped with SOAK constant temperature function, meeting the low-temperature storage demand
- Brand-new automatic hot lid technology, free from manual operation, automatic control, effectively prevent reagent evaporation

Intelligent operating system

- Flexible program setting, comprehensive analysis and report functions
- Portable tablet compatibility with wireless use makes operation easier.
- Multiple templates, easy to find saved experiments, and fast to set up new experiment.
- Various analysis modes: qualitative, relative/absolute quantitative, standard curve, melting curve, high-resolution melting curve (HRM), SNP analysis, and isothermal amplification.
- Comprehensive analysis and report function, flexibly print single and multiple sample reports

Product parameters

Product name	LineGene K Plus Fluorescence Quantitative PCR Detection System			
Product model	FQD-48A			
Sample capacity	48×0.2ml (suitable for single tube and 8-strip tubes)			
Reaction system	5-100μL			
Medical instrument registration certificate	G.X.Z.Z. 20153400273			
Detection path	F1	F2	F3	F4
Suitable probe/dye	FAM, SYBR Green I	VIC, HEX, JOE, Cy3, TAMRA	ROX, TEXAS-RED	Cy5 Quasar-670
Excitation wavelength	445-485nm	513-533nm	561-581nm	620-650nm
Detection wavelength	515-535nm	554-574nm	602-622nm	674.5-689.5nm
Module working temperature range	4-105°C (resolution: 0.1°C)			
Ramp rate	4°C/s(max)			
Temperature control precision	±0.1°C			
Temperature uniformity	≤±0.3°C			
Hot lid temperature range	Ambient temperature +5-110°C (default by 105°C and automatic hot lid)			
Temperature control mode	Three independent temperature control sections, temperature difference range 0.1-6°C			
Operation mode	Continuous operation			
Special function	Absolute quantitative automatic analysis, relative quantitative, SNP analysis, Melting curve analysis, 6 independent temperature zones, HRM, Multi-channel crosstalk calibration, background correction, Auto Gain, customizable parameters, etc.			
Operating system	WindowsXP/Windows7/Windows8/Windows10			
Control computer	May select Surface Pro series, PC/Laptop			
Port method	Support USB and RS232 data port and Bluetooth port			
Input power	100-240V,50/60Hz,500W			
Outer dimension	384mm×353mm×348mm			
Certification	Ferrotec:Peltier/CE/EMC/RoHS2.0/PICC Product Quality Liability Insurance/IVD			