

Thermax RT Mini

Real-time Fluorescent Quantitative PCR Analyzer



New generation
Android analysis
software Intelligent and
convenient system

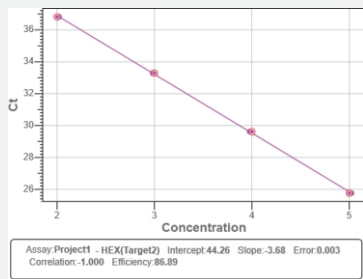
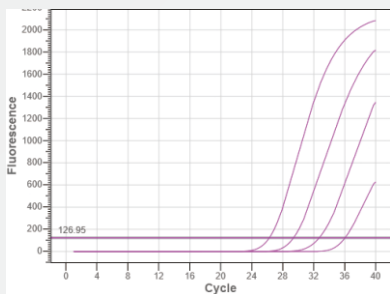
Specially made
TE sheet Ultimate
ramp rate

Automatic gain
Automatic curve
control

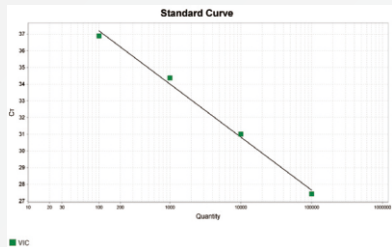
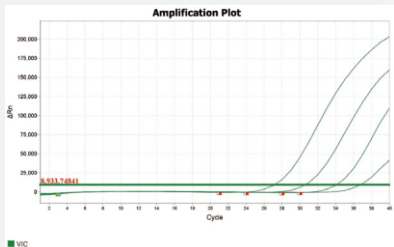
Patent PID temperature
control Stable and precise
temperature control

All fiber module
Accurate and
stable signal

Prepare 4 kinds of gradient reaction system(concentraton: 10 ~10⁻⁵) to amplify on Apollo Thermax RT Mini and one famous brand qPCR instrument respectively, compare results

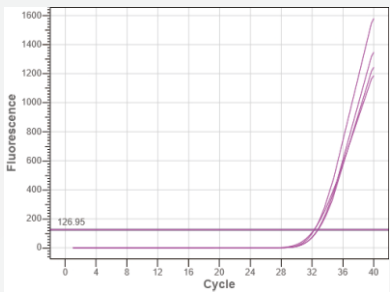


The result of Apollo qPCR instrument

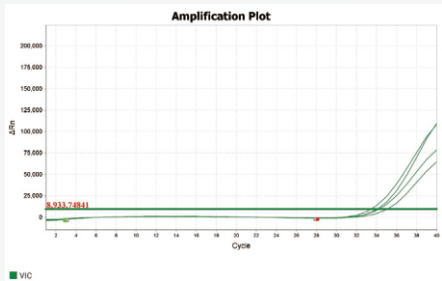


The result of one famous brand qPCR instrument

Prepare a reaction system with a concentration of 10⁻³ and conduct four repeated experiments on Apollo Thermax RT Mini and one famous brand qPCR instrument respectively, compare results



The result of Apollo qPCR instrument



The result of one famous brand qPCR instrument

Model	Thermax RT Mini		ROX calibration	No need
Sample quantity	16 well×0.2ml		Temp. control method	Thermoelectronic
Consumable type	0.2 mL 8-strips tubes, Single tube (the bottom should be transparent)		Ramp rate(max)	6°C/s
Reaction volume	10-100 μL		Temp. accuracy	±0.1°C
Dynamic range	1-10 ¹⁰ copies		Temp. uniformity	≤±0.2°C(55°C)
Sample repeatability	CV < 1 %		Temp. range of hot lid	RT.+5°C-110°C
Sample linear	r ≥0.999		Temp. gradient range	/
hot lid	Manual hot lid		Time increase/decrease	0.1~9min59s, long PCR is available
Fluorescence channel	5		Temp. Increase/decrease	0.1~9.9°C, touchdown PCR is available
Fluorescence dyes	F1: FAM, SYBR Green I ,SYTO 9, EvaGreen ,LC Green F2: VIC, HEX, TET, JOE, TAMRA, CY3, NED ; F3: ROX/TexRed; F4: CY5 ; F5: CY5.5 ;		Software function	Support absolute quantitative, relative quantitative, melting curve, HRM, SNP and other functions.
			Safety protection and alarm	Over heat protection and alarm for block and hot lid
Excitation light source	High brightness and long life LED excitation light source		Data export	Excel, TXT
Detector	PD		Software language	English
Excitation wavelength	Channel1:470nm Channel2 :523nm Channel3 :571nm Channel4 :628nm Channel5 :678nm		Voltage range	100-240V
			Interface mode	USB
Detection wavelength	Channel1:525nm Channel2 :564nm Channel3 :612nm Channel4 :692nm Channel5 :718nm		Power(max)	350W
			Dimension(D×W×H)	280×187×193 mm
Single channel scanning time	< 1s		Net weight (kg)	6.9