

Brand	Model	Channel	Ramp Rate	Reaction Volume	Throughput	2.1	4.0	4.1	5.1
ThermoFisher	7500	FAM, VIC, ROX, Cy5, TAMRA	2.5°C/s	20-100µl	96	YES*	YES*	YES*	YES
	7500 Fast	FAM, VIC, ROX, Cy5, TAMRA	Fast mode: 3.5°C/s Standard mode: 1.6°C/s	5-30µl	96	YES	YES	YES	YES
	7500 Fast Dx	FAM, VIC, ROX, Cy5, TAMRA	Fast mode: 3.5°C/s Standard mode: 1.6°C/s	10-30µl	96	YES	YES	YES	YES
	QuantStudio 1	FAM, VIC, ROX	3.5°C/s	10-100µl	96	YES	NO	YES	NO
	QuantStudio 3	FAM, VIC, ROX, TAMRA	0.1 ml block: 9.0°C/s 0.2 ml block: 6.5°C/s	10-100µl	96	YES	NO	YES	NO
	QuantStudio 5 (96-well plate model)	FAM, VIC, ROX, Cy5, TAMRA	0.1 ml block: 9.0°C/s 0.2 ml block: 6.5°C/s	10-100µl	96	YES*	YES*	YES*	YES*
	QuantStudio 6 (96-well plate model)	FAM, VIC, ROX, Cy5, TAMRA	6.5°C/s	10-100µl	96	YES	YES	YES	YES
	QuantStudio 7 (96-well plate model)	FAM, VIC, ROX, Cy5, TAMRA	6.5°C/s	10-100µl	96	YES	YES	YES	YES
	QuantStudio 12K Flex (96-well plate model)	FAM, VIC, ROX, Cy5, TAMRA	3.0°C/s	10-100µl	96	YES*	YES	YES	YES
	StepOne System	FAM, VIC, ROX	Fast mode: 2.2°C/s Standard mode: 1.6°C/s	10-30µl	48	YES	NO	YES	NO
	StepOne Plus System	FAM, VIC, ROX, TAMRA	Fast mode: 2.2°C/s Standard mode: 1.6°C/s	10-30µl	96	YES	NO	YES	NO
	ViiA 7 (96-well plate model)	FAM, VIC, ROX, Cy5, TAMRA	<3.0°C/s	10-100µl	96	YES	YES	YES	YES
	7300	FAM, VIC, ROX, TAMRA	1.1°C/s	20-100µl	96	YES	NO	YES	NO
	7300 Plus	FAM, VIC, ROX, TAMRA	2.5°C/s	20-100µl	96	YES	NO	YES	NO

Brand	Model	Channel	Ramp Rate	Reaction Volume	Throughput	2.1	4.0	4.1	5.1
Roche	LightCycler® 96 (Color compensation calibration is required)	FAM, VIC, ROX, Cy5	Heating: 4.4°C/s Cooling: 2.2°C/s	10-50µl	96	YES	NO	YES	YES
	LightCycler® 480 II (Color compensation calibration is required)	FAM, VIC, ROX, Cy5	Heating: 4.4°C/s Cooling: 2.2°C/s	10-100µl	96	YES	NO	YES	YES
	LightCycler® 1536	FAM, VIC	Heating: 4.8°C/s Cooling: 2.5°C/s	0.5-2.0µl	1536	NO	NO	NO	NO
	LightCycler® 2.0	FAM	0.1-20°C/s	20 or 100µl	32	NO	NO	NO	NO
	Cobas Z 480 (Color compensation calibration is required)	FAM, VIC, ROX, Cy5	Heating: 4.4°C/s Cooling: 2.2°C/s	10-100µl	96	YES	NO	YES	YES
Bio-Rad	CFX96 Touch	FAM, VIC, ROX, Cy5	5°C/s	1-50µl	96	YES*	NO	YES	YES
	CFX96 Touch Deep Well	FAM, VIC, ROX, Cy5	2.5°C/s	10-125µl	96	YES*	NO	YES*	YES*
QIAGEN	Rotor-Gene Q	FAM, VIC, ROX, Cy5		10-50µl	36 or 72 or 100	YES*	NO	YES	YES
YENA	analytikjena qTOWER3	FAM, VIC, ROX, Cy5, TAMRA	Heating: 8 °C/s Cooling: 6 °C/s	10-80µl	96	YES	YES	YES	YES
Corbett	Rotor-Gene 6000	FAM, VIC, ROX, Cy5	15 °C/s	5-100µl	96	YES	NO	YES	YES
Agilent	AriaDx	FAM, VIC, ROX, Cy5	Heating: 6 °C/s Cooling: 3 °C/s	10-30µl	96	YES	NO	YES	YES
	AriaMx3000P	FAM, VIC, ROX, Cy5	Heating: 6 °C/s Cooling: 3 °C/s	10-50µl	96	YES*	NO	YES*	YES

Brand	Model	Channel	Ramp Rate	Reaction Volume	Throughput	2.1	4.0	4.1	5.1
	AriaMx3005P	FAM, VIC, ROX, Cy5, TAMRA	Heating: 6 °C/s Cooling: 3 °C/s	10-50µl	96	YES	YES	YES	YES
HONGSHI 上海宏石医疗	SLAN@-96P	FAM, VIC, ROX, Cy5	4.0°C/s	15-100ul	96	YES*	NO	YES	YES
	SLAN@-96S	FAM, VIC, ROX, Cy5	4.0°C/s	15-100ul	96	YES	NO	YES	YES
	SLAN@-48P	FAM, VIC, ROX, Cy5	4.0°C/s	15-100ul	48	YES	NO	YES	YES
Bioer 杭州博日科技	LineGene Mini FQD-16A	FAM, VIC, ROX, Cy5	5°C/s	10-100ul	16	YES	NO	YES	YES
	LineGene Mini S FQD-16B	FAM, VIC, ROX, Cy5	≥5°C/s	10-100ul	16	YES	NO	YES	YES
	QuantGene 9600 FQD-96C	FAM, VIC, ROX, Cy5	6.5°C/s	10-100ul	96	YES	NO	YES	YES*
	LineGene 9600 Plus FQD-96A	FAM, VIC, ROX, Cy5	5.0°C/s	5-100ul	96	YES	NO	YES	YES
	LineGene K Plus FQD 48A	FAM, VIC, ROX, Cy5	5.0°C/s	10-100ul	48	YES	NO	YES	YES
TIANLONG 西安天隆科技	Gentier 48S	FAM, VIC	Heating: ≥8.0°C/s Cooling: ≥6.1°C/s	10-100ul	48	NO	NO	NO	NO
	Gentier 96E Gentier 96R	FAM, VIC, ROX, Cy5	Heating: ≥6.1°C/s Cooling: ≥5.0°C/s	10-100ul	96	YES	NO	YES	YES
	Gentier 48E	FAM, VIC, ROX, Cy5	Heating: ≥8.0°C/s Cooling: ≥6.2°C/s	10-100ul	48	YES	NO	YES	YES
	Gentier 48R	FAM, VIC	Heating: ≥8.0°C/s Cooling: ≥6.2°C/s	10-100ul	48	NO	NO	NO	NO

Brand	Model	Channel	Ramp Rate	Reaction Volume	Throughput	2.1	4.0	4.1	5.1
	Gentier 32R	FAM, VIC	Heating: $\geq 6.0^{\circ}\text{C/s}$ Cooling: $\geq 4.5^{\circ}\text{C/s}$	10-100ul	32	NO	NO	NO	NO
DLAB 北京大龙	Accurate 96	FAM, VIC, ROX, Cy5, TAMRA	6.0°C/s	10-50 μl	96	YES	YES	YES	YES
	Accurate 16-T	FAM, VIC, ROX, Cy5	6.0°C/s	10-50 μl	16	YES	NO	YES	YES
MOLARRAY 苏州雅睿	MA-6000	FAM, VIC, ROX, Cy5	5°C/S	6-125ul	96	YES	NO	YES	YES
	MA-4800			20-120ul					
	MA-688	FAM, VIC, ROX, Cy5	Heating: 4.5°C/S Cooling: 3°C/S	20-120ul	48	YES	NO	YES	YES
	MA-3200Q	FAM, VIC, ROX, Cy5	5.5°C/S	20-120ul	32	YES	NO	YES	YES
	MA-1600Q	FAM, VIC	Heating: 3.2°C/s Cooling: 2.5°C/s	20-120ul	16	NO	NO	NO	NO
	P30	FAM, VIC, ROX, Cy5	Heating: $\geq 4.5^{\circ}\text{C/s}$ Cooling: $\geq 3.5^{\circ}\text{C/s}$	25-120ul	3	YES	NO	YES	YES
	DAAN GENE 中山大学达安基因	AGS8830-8 AGS8830-16	FAM, VIC, ROX, Cy5	$\geq 8^{\circ}\text{C/s}$	5-100ul	8 16	YES	NO	YES
AGS4800		FAM, VIC, ROX, Cy5	$\geq 4.5^{\circ}\text{C/s}$	5-100ul	48/96/144	YES	NO	YES	YES
DA7600		FAM, VIC, ROX, Cy5	$\geq 4.5^{\circ}\text{C/s}$	5-100ul	48	YES	NO	YES	YES
AGT9601		None	5°C/S 4°C/S	5-100ul	96	NO	NO	NO	NO

*	This model have been validated with this Kit
YES	This model is compatible with this Kit
YES	This model is compatible with this Kit, but the reaction volume need to reduces to 25ul
YES	This model is compatible with this Kit, but the running time is longer
NO	This model isn't compatible with this Kit

	Excitation	Emission
FAM	494	522
VIC	535	553
ROX	588	608
CY5	650	670
TAMRA	542	568

Kit	Target Genes—Fluorescent Reporter					
	ORF1ab gene	N gene	E gene	FluA	FluB	IC
V5.1	FAM	ROX	VIC	NO	NO	CY5
V4.1	FAM	ROX	NO	NO	NO	VIC
V4.0	FAM	ROX	NO	CY5	VIC	TAMRA
V2.1	ROX	FAM	FAM	NO	NO	VIC
V2.0	ROX	FAM	FAM	CY5	CY5	VIC