



Technology = LK Biotec

	20µL x 500 rxns	4 x 1.25mL	1mL	4 x 1.25mL	-20 /

- ◆
- ◆
- ◆
- ◆

50%
PCR

K⁺ NH₄⁺
real-timePCR

ROX Reference Dye

EnTurbo™ SYBR Green PCR SuperMix
HotStarTaq DNA Polymerase SYBR Green
K⁺ NH₄⁺
PCR
real-timePCR

cDNA
qPCR ,

2x real-timePCR
dNTP Mg²⁺
PCR
PCR

	30s DNA	
	real-timePCR	qPCR 50%, PCR
	DNA	Ct 5-35
	ABI Agilent PCR	ROX PCR PCR



Technology = LK Biotec

EnTurbo™ SYBR Green PCR SuperMix
PCR SYBR Green I
PCR

PCR HotStarTaq DNA Polymerase DNA 95°C 30sec

EnTurbo™ SYBR Green PCR SuperMix cDNA gDNA
real-timePCR , ABI Bio-Rad

Eppendorf Roche Agilent PCR

- cDNA 20µL qPCR, cDNA 10pg 1ng RNA 100ng 10µL cDNA PCR Ct
- DNA 20µL cDNA 100pg 1ng DNA 10-10⁷

1

2 -20

SYBR Green I

3



	50µL	20µL	10µL	
2 x SYBR Green PCR Master Mix	25µL	10µL	5µL	1 x
PCR Forward Primer (10 µM)	1µL	0.4µL	0.2µL	0.2µM
PCR Reverse Primer (10 µM)	1µL	0.4µL	0.2µL	0.2µM
*50 x ROX Dye ()	1µL	0.4µL	0.2µL	1x
RNase-free ddH ₂ O	to 50µL	to 20µL	to 10µL	

1. 20µL 50µL

2. /PCR

3. PCR

PCR

ROX

ROX 50µL

	50µL	ROX
ABI7300 7900HT StepOne		5µL
ABI7500 7500Fast ViiA 7 Stratagene Mx3000™ Mx3005P™ Mx4000™		1µL
Roche Bio-Rad Eppendorf		



	1x	95	30 sec
	35-40x	95	5 sec
/		60	30 sec
(Melt Curve)			

	1x	95	30 sec
	35-40x	95	5 sec
		50~ 60	30 sec
		72	30 sec
(Melt Curve)			

1

GC

2-5min

2

Tm

3