rm medium

1×100×1000 = 106 cells ?

2 ML Tube

mass Volume 0.5 x 30 = 15 m

Viener dilution

1.5 Mach Epen

10 um

Dilution & Storage Protocol

Spin first

Lear was placed in 20 μL of Dilution Buffer containing 0.5 μL of DNA Release Additive. The samples were incubated at room temperature for 2 minutes and then at 98 °C for 8 minutes. The samples were spun down and 1 μL of the supernatant was used as a template in a 20 μL reaction with Phire Tissue Direct PCR Master Mix and gene specific primers (Table 1). PCR was preformed as described in Table 2 and PCR products were loaded directly onto gels.

Same Ats 0-5×6=5

Table 1. PCR Reaction Setup.

Table 2. PCR Cycling Conditions.

500 ref

20x6=200

<u> </u>						
Component	20 µL rxn	50 μL rxn	Final conc.			
H ₂ O	add to 20 µL	add to 50 µL				
2X Phire Tissue Direct PCR Master Mix	10 μL	25 μL	1X (-3			
Primer A	XμL	XμĽ	0.5 µM			
Primer B	ΧμL	ΧμL	0.5 μM			
Sample			H			
Direct Protocol		0.5 mm punen or hair	0.5 mm/[
Dilution & Storage Protocol	1 µL	_				

Cycle step	2-step		3-step		
	Temp.	Time	Temp.	Time	Cycles
Initial denaturation	98°C	5 min	98°C	5 min	1
Denaturation	98°C	5 s	98°C	5 s	
Annealing	_	_	X°C	, 5 s	35
Extension	72°C	20 s ≤1 kb 20 s/kb >1 kb	72°C	20 s ≤1 kb 20 s/kb >1 kb	
Final Extension	72°C +4°C	1 min hold	72°C +4°C	1 min hold	1

paul - 7 Wong PCR vector-specific TO 65 1Kb

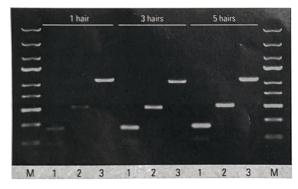
18.5

Sanger seq Zul PCR product Results and Discussion

CIVIZCZVZ

10xn = 0.(x50 225

The ability of Phire Tissue Direct PCR Master Mix to amplify target DNA from the hair samples was tested using mouse hair. Mouse hair samples were collected with tweezers from the animal's back, and only hair with follicles attached were used for PCR. Robust amplification of different length amplicons was achieved even from a single hair sample (Figure 1). Phire Tissue Direct PCR Master Mix can therefore be used for PCR based genotyping applications by using hair as a starting material. gone who



EM PCR Brodger 173 nl dilute primer

Figure 1. Different length amplicons were amplified using different number of mice hair and Phire Tissue Direct PCR Master Mix (direct protocol). Fragments sizes 1 - 237 bp, 2 – 515 bp, 3 – 1.1 kb. M – Thermo Scientific™ O'GeneRuler Express DNA Ladder.

Multiplex PCR amplification of five different length fragments was achieved using mouse hair and Phire Tissue Direct PCR Master Mix (Figure 2.). This approach can be used in genotyping applications that require 1. Trypsing cells, Incl 10b cells. Spin 1000rof simultaneous determination of several markers in one reaction.

add syBR safe dye

> add 20.5 ml mix (20 pilution + 0.5 pnA release) 3. vortex RT zmin + 98°C 5 min. spin

4 INI ONA + 2.5 Ml primer mix + 25 POR MM

Figure 2. Five different length DNA amplicons, ranging from 185 to 650 bp, were amplified from 5. PCK. Words specific TO 15 Her mouse hair in 1-plex to 5-plex reaction with Phire Tissue Direct PCR Master Mix. Dilution & storage 6. protocol and 5 hairs were used for the amplification.

2 ml pck product

13 ml dilute primer

(Sul primer FOR R + 250 mdw)

+ 21.5 dw.

The Phire DNA polymerase from Direct PCR Master Mix is optimized to achieve robust and sensitive amplification even from tiny amounts of tissue samples. The performance of Phire Direct PCR Master Mix was 7. Send songer compared to that of corresponding kits from other vendors. Figure 3 shows that while other vendors' kits work before 7 pm.

M - O'GeneRuler Express DNA Ladder.

fgarase DVA:

. Agarose LE 1.59 + TAE buffer 150ml

001 for 1-2 min

. tamb lomin snl ladder (purple)

bottom Yelbu band

: LOK -7 15 W + Sul PCR product 120-150 V 20-75 min Survey Survey Survey

batch 2 cell lines & Aml.