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Mouse Genotyping with KAPA Kit in 2 Hours (#KK7302) V.2

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Cq Wu¹

¹UKY



Cq Wu

UKY

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Protocol status: Working

We use this protocol and it's working

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Abstract

This protocol uses KAPA Mouse Genotyping kit (#KK7302)



DNA Extraction

30m

1 Collect mouse tissues (ear or tail clips) into PCR strips.

2 Make  100 μ L extraction buffer mix for each sample.

10x Extraction buffer	10 μ L
H ₂ O	88 μ L
Extraction Enzyme	2 μ L
Total	100 μ L

3 Add  100 μ L buffer into each tissue sample and run the reaction as follows:

 75 °C  00:15:00

 95 °C  00:05:00


 4 °C  00:00:00

Note

Tissues are visible or intact after extraction (this is normal).
Vortex DNA extract and spin down before PCR.

PCR

30m

4 Make  20 μ L PCR master mix for each sample.

2x PCR buffer	10 μ L
H ₂ O	8 μ L
10 μ M Primers mix	1 μ L
DNA	1 μ L
Total	20 μ L

5 Run the reaction as follows:



🌡️ 95 °C ⌚ 00:03:00

35 cycles

🌡️ 95 °C ⌚ 00:00:15

🌡️ 57 °C adjustable ⌚ 00:00:15

🌡️ 72 °C ⌚ 00:00:10 per kb

35 cycles

🌡️ 4 °C ⌚ 00:00:00

Run DNA Gel

30m

6 Take 🧪 10 µL PCR reaction and run DNA gel.