



Jan 29,
2020

Mouse Genotyping with KAPA Kit in 2 hours (#KK7302) V.1

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1 Works for me

[dx.doi.org/10.17504/protocols.io.bbxmipk6](https://doi.org/10.17504/protocols.io.bbxmipk6)



DNA Extraction 30m

- 1 Collect mouse tissues (ear or tail clips) into PCR strips.
- 2 Make **100 µl** extraction buffer mix for each sample.

10x Extraction buffer	10 ul
H2O	88 ul
Extraction Enzyme	2 ul
Total	100 ul

- 3 Add **100 µl** 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



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

PCR 30m

- 4 Make **20 µl** PCR master mix for each sample.

2x PCR buffer	10 ul
H2O	8 ul
10 uM Primers mix	1 ul
DNA	1 ul
Total	20 ul

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**

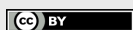
35 cycles

🔧 **4 °C** ⌚ **00:00:00**

Run DNA Gel

30m

6 Take  **10 µl** PCR reaction and run DNA gel.



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