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

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1

Works for me

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



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ABSTRACT

BioLegend MojoSort™ nanobeads work in commonly used separation columns, based on our internal research as well as validation by external testing by academic labs. This simple protocol consists of following the MojoSort™ protocol to label the cells with **pre-diluted** MojoSort™ reagents and using the columns as indicated by the manufacturer.

Note: Due to the properties of our beads, it may be possible to use far fewer beads and less antibody cocktail than with other commercial suppliers. We recommend a titration to find the best dilution factor. However, as a general rule, dilutions ranging from 1:2 to 1:10 for the antibody cocktail can be used. Dilutions ranging from 1:5 to 1:20 for the Streptavidin Nanobeads can be used. Please contact BioLegend Technical Service (tech@biolegend.com) if further assistance is needed.

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**

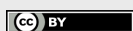
 **72 °C**  **00:00:10 per kb**

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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