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Genotyping protocol for mice

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Protocol status: Working
We use this protocol and it's working

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Abstract

This protocol describes the general method to genotype the mice.

Troubleshooting

DNA Extraction

30m

1 Obtain tail sample from mice.

2 Add 100 µL of NaOH into tail sample and place in hot plate at 100C for 00:10:00. Vortex sample and place in hot plate once more for 00:10:00. 20m

3 Add 50 µL of 1M Tris pH 8.0 to neutralize extraction

4 Spin for 20,000xg for 00:10:00 10m

5 Use 2µL in PCR reaction.

Preparing PCR reaction

6 Obtain a 1.5ml microcentrifuge tube and add 10ul 2x DreamTaq Green Master mix. 2ul forward and reverse primers, 2µL DNA lysate and Nuclease-free water up to 20µL

7 Thermocycling parameters:
95°C 5min
95°C 30sec| x 30 cycles
60°C 30sec|
72°C 1min|
72°C 2min
4°C hold

Run DNA Sample

8 In 2% agarose in TAE buffer add 10ul of the sample and run for around 30min