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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 .
- 3 Add  50 μL of 1M Tris pH 8.0 to neutralize extraction
- 4 Spin for 20,000xg for  00:10:00
- 5 Use 2 μL in PCR reaction.

20m

10m

Preparing PCR reaction

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