

M-Fast PCR Genotyping Kit (Cat. #: VGT-203/VGT-203p)

Cat: GT-203 Size: 1000 Extractions (Reagent-A: 250mL; Reagent-B: 50mL)
 Storage: Room Temperature

Cat: GT-203p Size: 1000 Extractions
 (Reagent-A: 250mL; Reagent-B: 50mL; 2x Green PCR mixture: 12.5mL)
 * 2x Green PCR mixture stored at -20°C

* **Protocol for gDNA Extractions**

1. Prepare 0.1-0.2cm mouse tail/ear biopsy sample in a 1.5/0.5mL microcentrifuge tube.
2. Add **250ul reagent-A** into the sample tube.
3. Place the tube in a PCR machine (or dry heat bath or heat block) and incubate at 95°C for 30 minutes. (Cover the sample tubes with a heavy book or others to prevent the cap opening during incubation)
4. Add **50ul reagent-B** into the sample tube and mix well by simple vortexing.
5. Pipette **2ul lysate supernatant** into an 23ul PCR mastermix (total: 25ul reaction)
6. Run PCR reactions at thermal cyclers.

Note: These DNA samples are stable at room temperature for 1-3 weeks, or 1-3 months at 2-8°C and more than 3 years at -20°C.

Suggested PCR Protocol:

I. Preparation of PCR Master Mix for a single reaction (total volume: 25uL) in a 0.2mL tube.

Component	Volume (µL)	Final Concentration
2x PCR Mastermix	12.5	1x
Forward primer (10µM)	1	250nM
Reverse primer (10µM)	1	250nM
DNA Template	2	Determined by user
PCR grade water	8.5 µL	Determined by user

II. Setup typical thermal cycling parameters

After thermal cycling, the PCR products can be loaded directly onto an agarose gel and run gels as usual.

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