

Sample

Sample: 17-25210
Name: Herek Alfa-Pol-Cat.CZ
Breed: British Shorthair
Date of birth: 01.04.2016
Reg. number: (CZ)ČSCH LO 468/16/BSH
Microchip: 941 000 019 815 626
Sex: male
Date received: 12.09.2017
Sample type: buccal swab
The identity of the animal has been checked by
MVDr. Petra Domesová

Customer

Šárka Velčovská
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Result: N/M4

Explanation

Presence of FGF5 gene variant M4 (c.475A>C) influencing coat length in British cats was examined.

- If the result is N/N – the cat does not carry M4 variant specific for long hair – the cat has short hair
- If the result is N/M4 – the cat carries one copy of the variant gene – the cat is short-haired, but she can give birth to long-haired offspring, if suitably crossed.
- If the result is M4/M4 – the cat carries two same variants in the FGF5 gene – the cat is long-haired

Long coat phenotype is inherited in autosomal recessive trait. Long coated cats have two FGF5 gene variants in both alleles (each from different parent). In case of mating two FGF5 carriers, theoretically, 25% long coated offspring will be born. In connection with long coat phenotype allelic heterogeneity was observed, cat may be compound heterozygote for different variants.

Method: SOP173-FGF5-cat, PCR-RFLP

Report date: 12.09.2017

Responsible person: Mgr. Martina Šafrová, Laboratory Manager



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