GENOMIA
genetic laboratory

Result certificate #012345

Detection of c.475A>C FGF5 gene variant influencing coat length in cats

Customer: Jan Novák, Dlouhá 1, 30000 Plzeň, Czech Republic
Sample:
Sample: 08-12346
Date received: 01.01.2008
Sample type: buccal swab

Information provided by the customer
Name: Madame Théophile DEMO
Breed: Persian cat
Date of birth: 31.12.1909
Reg. number: (CZ)ABCD EF 123/45/XYZ
Microchip: 123 456 789 012 345
Sex: female
Date of sampling: 01.01.2008
The identity of the animal has been checked.

Result: N/M1

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

Date of issue: 06.01.2008
Date of testing: 12.06.2008 - 06.01.2008
Approved by: Mgr. Martina Šafrová, Laboratory Manager

verified and certified document
GENOMIA genetic laboratory

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