

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: 123456789012345

Sex: female

Date of sampling: 01.01.2008

The identity of the animal has been checked.

Result: N/M1

Explanation

Presence of FGF5 gene variants M1 (c.356insT), M3 (c.474delT), M4 (c.475A>C) influencing coat length in cats was examined.

- If the result is N/N – the cat does not carry any variant specific for long hair – the cat has short hair
- If the result is N/M1 or N/M3 or 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 M1/M1 or M3/M3 or M4/M4 – the cat carries two same variants in the FGF5 gene – the cat is long-haired
- If the result is compound heterozygote N/M1 & N/M3 or N/M1 & N/M4 or N/M3 & N/M4 – the cat carries two different variants in FGF5 gene – the cat is long-haired on condition that the cat inherited one variant from each parent.

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. Other gene variants affecting hair length may be found in the future. There are other variants of the Norwegian Forest Cat breed that cause hair length, which this test does not detect.

Method: SOP171-FGF5-cat, fragment analysis

Date of issue: 06.01.2008

Date of testing: 12.06.2008 - 06.01.2008

Approved by: Mgr. Martina Šafrová, Laboratory Manager



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