

**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 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



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