

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: PREVIEW RESULT LINE

Explanation

Presence or absence of gene variants c.[8C>G; 1262+5G>A] (b-allele causing chocolate coat color) and c.298C>T (b^l-allele causing cinnamon coat color) in TYRP1 gene (locus B) was examined. Three variant alleles of locus B were identified in following hierarchy: B>b>b^l. The dominant B-allele is original (wild type) allele and determines dark color.

The brown and cinnamon coat color is inherited autosomal recessively, i.e. the phenotype comes to expression only in cats which inherited these b-alleles from both parents. A cat with b/b genotype is chocolate-brown colored and a cat with b^l/b^l genotype is cinnamon colored. A cat with b/b^l genotype is brown colored, the phenotype is lighter than b/b cat, and is also a carrier of cinnamon hair coloration.

Existence of other unknown gene variants in TYRP1 gene responsible for brown coat color cannot be excluded.

Method: SOP172-TYRP1-cat, direct DNA sequencing

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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