GENOMIA
genetic laboratory

Result certificate #012345

Detection of c.250G>A MC1R gene variants (locus E) affecting coat color 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: Based on mutation examination genotype was determined E/e

Explanation

Presence of c.250G>A MC1R gene variants (locus E) affecting coat color in cats was tested. MC1R gene variant c.250A (allele e) was described in Norwegian Forest Cats and causes amber coat color. Inheritance of amber coloring is autosomal recessive.

Expression of amber coloring is subordinated to the dominant locus O, which is X linked. Amber is expressed only in individuals with e/e genotype, who are not carriers of dominant orange; cats and tom-cats with genotype e/e will have amber colour.

Method: SOPAgriseq_feline, MPS

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

SAMPLE

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