GENOMIA
genetic laboratory

Result certificate #012345

Detection of c.577C>T mutation in AIPL1 gene causing pd-PRA 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: Mutation was not detected (N/N)

Legend: N/N = wild-type genotype. N/P = carrier of the mutation. P/P = mutated genotype (individual will be most probably affected with the disease). (N = negative, P = positive)

Explanation

Presence or absence of c.577C>T mutation in AIPL1 gene causing Leber congenital amaurosis, also known as retinal pigment epithelial dystrophy (pd-PRA) in many cat breeds was tested. Pd-PRA occurs in Persian, British shorthair and longhair, Himalayan, Exotic shorthair and longhair and related breeds. Pd-PRA is manifested as a serious visual impairment at an early age. Other symptoms are abnormal eye movements, impaired pupils reaction to light and behavior changes.

Mutation that causes pd-PRA is inherited autosomally recessively which means that the disease develops only in those cats who inherit mutated allele from both parents; disease affects cats with P/P genotype only. The cats with N/P genotype are considered carriers of the disease (heterozygotes). In offspring of two heterozygous animals following genotype distribution can be expected: 25 % N/N, 25 % P/P and 50 % N/P.

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

verified and certified document
GENOMIA genetic laboratory

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SAMPLE