GENOMIA
genetic laboratory

Result certificate #012345

Detection of c.5647G>A mutation in MYH7 gene causing HCM in domestic Shorthair 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.5647G>A mutation in MYH7 gene causing Hypertrophic Cardiomyopathy (HCM) in domestic Shorthair cats. In HCM, there is thickening (hypertrophy) of the heart muscle, especially of the left ventricular wall. Clinical symptoms include breathing difficulties, coughing, lethargy and weakness.

The inheritance of the mutation in MYH7 gene is currently unknown, but it is thought to be autosomal dominant. This means that the disease develops in N/P individuals who inherit the mutated gene from one parent.

Method: SOPAgriseq_feline, ngs

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

Genomia s.r.o, Republikánská 6, 31200 Plzeň, Czech Republic
www.genomia.cz, laborator@genomia.cz, tel: +420 373 749 999