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Result certificate #081608

Detection of c.296G>A mutation in ARSG gene causing Neuronal Ceroid Lipofuscinosis in American Staffordshire Terrier and American Pit Bull Terrier

Sample
Sample: 16-21307
Name: Lansur Praid Grace Santastyle
Breed: American Staffordshire Terrier
Microchip: 112 093 400 000 278
Date of birth: 21.4.2016
Sex: female
Date received: 01.08.2016
Sample type: buccal swab

Customer
Natalia Moroz
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Result: Mutation was detected in heterozygous status (N/P)

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.296G>A mutation in ARSG gene causing Neuronal Ceroid Lipofuscinosis (NCL) in American Staffordshire Terrier and American Pit Bull Terrier was tested. Mutation causing NCL in mentioned breeds is inherited as an autosomal recessive trait. That means the disease affects dogs with P/P (positive/positive) genotype only. The dogs with N/P (negative/positive) genotype are considered carriers of the disease (heterozygotes). In offspring of two heterozygous animals following genotype distribution can be expected: 25 % N/N (healthy non-carriers), 25 % P/P (affected), and 50 % N/P (healthy carriers).

Method: SOP158, HRMA

Report date: 04.08.2016
Responsible person: Mgr. Martina Šafrová, Laboratory Manager

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