

Detection of g.85286582_85286583insC mutation in HSF4 gene causing hereditary cataract in several dog breeds

Sample

Sample: 17-23340
Name: Blanka One Bull Staff
Breed: Staffordshire Bull Terrier
Microchip: 203 098 100 405 976
Reg. number: CMKU/SBT/10609/17
Date of birth: 10.6.2017
Sex: female
Date received: 22.08.2017
Sample type: buccal swab
The identity of the animal has been checked by Mgr. Lucie Pindáková, Genomia s.r.o.

Customer

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Ordered on April 3, 2018.

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 mutation g.85286582_85286583insC in HSF4 gene causing hereditary cataract (HC) in Staffordshire bull terriers, French bulldogs and early onset HC in Boston Terriers was tested.

Mutation that causes HC in mentioned breeds is inherited in autosomal recessive trait. It means that the disease develops only in those dogs who inherit mutated allele from both parents; disease affects dogs with P/P genotype only. The dogs 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: SOP171-HC, fragment analysis, accredited method

Report date: 11.04.2018

Responsible person: Mgr. Markéta Dajbychová, Deputy Laboratory Manager

Genomia is accredited according to ISO/IEC 17025:2005 under #1549.

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