GENOMIA
genetic laboratory

Result certificate #062422:

Detection of gene variants influencing coat length in dogs

Sample
Sample: 15-07909
Name: Caramel Love de Donawitz
Breed: Weimaraner
Tattoo number: 8171
Microchip: 203098100245618
Reg. number: ČLP/VOK/8171/12
Date of birth: 31.8.2010
Sex: male
Date received: 26.03.2015
Sample type: blood
Sample certified by Vet/Tech or witness.

Customer
Tereza Křížová
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Result: N/N

Explanation

Presence of FGF5 gene variants influencing coat length in dogs was examined.

• If the result is N/N – the dog does not carry any variant specific for long hair – the dog has short hair
• If the result is N/FGF5 – the dog carries one copy of the variant FGF5 gene – the dog is short-haired, but it can give birth to long-haired offsprings, if suitably crossed.
• If the result is FGF5/FGF5 – the dog carries two variant alleles in the FGF5 gene – the dog is long-haired

Long coat phenotype is inherited in autosomal recessive trait. Long coated dogs have two variant alleles in the FGF5 gene (each from different parent). In case of mating two FGF5 carriers, theoretically, 25% long coated offspring will be born.

In some breeds, variant for long coat phenotype was not elucidated.

Method: SOP63, SOP142

Report date: 02.04.2015
Responsible person: Mgr. Martina Šafrová, Laboratory Manager

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