GENOMIA
genetic laboratory

Result certificate #012345

Detection of c.284G>T FGF5 gene variant influencing coat length in dogs

Customer: Jan Novák, Dlouhá 1, 30000 Plzeň, Czech Republic
Sample:
Sample: 21-12345
Date received: 01.02.2021
Sample type: blood

Information provided by the customer
Name: Lassie DEMO
Breed: Plemeno
Tattoo number: 1392013
Microchip: 123 456 789 012 345
Reg. number: REGQ12345
Date of birth: 1.1.2020
Sex: female
Date of sampling: 01.02.2021
The identity of the animal has been checked.

Result: N/FGF5

Explanation

Presence of c.284G>T FGF5 gene variant influencing coat length in dogs was examined.

• If the result is N/N – the dog does not carry c.284G>T FGF5 gene 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 has not been found yet.

Method: SOPAgriseq_canine, ngs

Date of issue: 06.02.2021
Date of testing: 01.02.2021 - 06.02.2021
Approved by: Mgr. Martina Šafrová, Laboratory Manager

verified and certified document
GENOMIA genetic laboratory

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