GENOMIA
genetic laboratory

Result certificate #012345

Detection of c.283_286delTTAG variant in SGK3 gene causing hairlessness in American Hairless Terriers

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/Hr

Explanation

Presence or absence of c.283_286delTTAG variant SGK3 gene causing hairlessness in American Hairless Terriers (AHT) was tested. The gene for hairlessness in AHT is not associated with any health issues that affect the teeth quality or dog´s fertility. The dogs of hairless variant are born healthy with a sparse coat that is lost completely within the first month after birth (so-called hypotrichosis).

Hairlessness in AHT is inherited as an autosomal recessive trait. It is expressed only if a dog inherits this particular gene from both parents. The coated dogs either do not carry any copy of the deletion variant (genotype N/N) or can be carriers of this trait (genotype N/Hr). If two carriers are mated, theoretically 75% of the puppies will be born coated (without any variant N/N or with one deletion variant N/Hr) and 25% of puppies will be born hairless (genotype Hr/Hr) having both two copies of the deletion variant.

Method: SOP188-MPS-canine, MPS, accredited method

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

SAMPLE

Genomia is accredited in compliance with ISO/IEC 17025:2018 under #1549
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