

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: 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



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