

Detection of c.57\_63dup7 mutation in  
FOXI3 gene causing hairlessness 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:** Hr/N

**Explanation**

Presence or absence of c.57\_63dup7 mutation in FOXI3 gene causing hairlessness in Chinese Crested, Peruvian Inca Orchid (Peruvian Hairless) and Mexican Xoloitzcuintle breeds was tested.

The hairless trait is dominantly inherited. It means that the hairless trait appears in dogs carrying only one mutant allele (Hr/N). Dogs carrying two mutations in FOXI3 gene (Hr/Hr) die in prenatal stage. Dogs without mutation in FOXI3 gene (N/N) have hairs, so called Powderpuff.

Method: SOP172-FOXI3, direct DNA sequencing

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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