

Sample

Sample: 19-21318
Name: Domus Letitia Goody
Breed: Schnauzer Miniature
Microchip: 688 032 000 030 589
Reg. number: CDK 3127/18ZSCH
Date of birth: 15.4.2018
Sex: male
Date received: 06.08.2019
Sample type: blood
The identity of the animal has been checked by
MVDr. Petr Gbelec

Customer

Alice Trojanová
Svatá 222
26751 Svatá
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Result: $b^c b^d$ **Explanation**

Presence of TYRP1 gene (locus B) variants c.991C>T (allele b^c), c.1033_1036delCCT (allele b^d) and c.121T>A (allele b^e) causing brown coat or nose color was examined. It is a set of locus B (Brown) alleles. Wild type allele is called B.

- If the result is B/B the individual does not carry brown color.
- If the result is B/ b^c or B/ b^d , B/ b^e the individual carries brown color.
- If the result is b^c/b^c or b^d/b^d or b^e/b^e the individual is brown colored.
- If the result contains two or more different b-alleles the individual could be either carrier of brown color without brown color phenotype (b-alleles are inherited from one parent only) or is brown colored (b-alleles are inherited from both parents). It is not possible to summarize locus B genotype without testing the parents.

Phenotype of b allele (brown color) is inherited as a autosomal recessive trait. This examination does not exclude existence of any unknown variant of TYRP1 gene causing brown coat and nose color. Final coat color is influenced also by other loci (A, E, D, K).

Method: SOP182-TYRP1,173-TYRP1, PCR-RFLP

Report date: 03.12.2019

Responsible person: Mgr. Martina Šafrová, Laboratory Manager



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