

Sample

Sample: 16-27701
Name: Nikki Valatheca
Breed: Great Swiss Mountain Dog
Microchip: 953 010 000 206 316
Reg. number: CMKU/VSP/2310/14/16
Date of birth: 10.12.2014
Sex: female
Date received: 05.10.2016
Sample type: blood
The identity of the animal has been checked by
MVDr. Aleš Jurovic

Customer

Lucie Macková
Valšov 135
79201 Bruntál
Czech Republic

Result: D/D

Explanation

Presence of c.-22G>A MLPH gene variants was examined. It is a set of locus D (Dilution) alleles. MLPH gene controls density of pigment (eumelanin and pheomelanin) distribution in hair. Presence of c.-22A gene variant causes decline of pigments in hair; origin black coat color is diluted in to blue coat color.

Color dilution in different breeds of dogs can be also caused by other genes whose variations have not been described yet.

Phenotype of d allele is inherited in autosomal recessive trait. Color dilution is evident in d/d individuals, who inherited d-allele from both parents. Heterozygous D/d individuals has no color dilution, they are just carriers of d-allele. Final coat color is influenced by other loci (E, B, A, K).

Method: SOP175-MLPH, real-time ASA-PCR

Report date: 06.10.2016

Responsible person: Mgr. Martina Šafrová, Laboratory Manager

